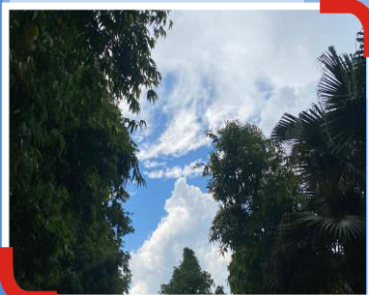




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IMD CELEBRATED ITS 150TH FOUNDATION DAY ON 14TH & 15TH JANUARY 2025

IMD celebrated its 150th Foundation Day on 14th & 15th January, 2025. Hon'ble Prime Minister **Shri Narendra Modi Ji** graced this momentous occasion as Chief Guest. **Dr. Jitendra Singh**, Hon'ble Minister, Union Minister of State (Independent Charge) of the Ministry of Earth Sciences and **Prof. Celeste Saulo**, Secretary General, WMO also graced the occasion as guests of honour. The Permanent Representatives of various member countries to WMO, representatives from World Bank, United Nations, Heads of various organisations, Chief Secretaries, Secretaries to Govt. of India, Heads of leading organisations, retired and serving employees of IMD and MoES institutes, representatives of state and central government agencies, R&D and academic institutes, students, teachers and parents of students participated in the function.



India Meteorological Department (IMD) celebrate its 150th Foundation Day on 14th & 15th January, 2025



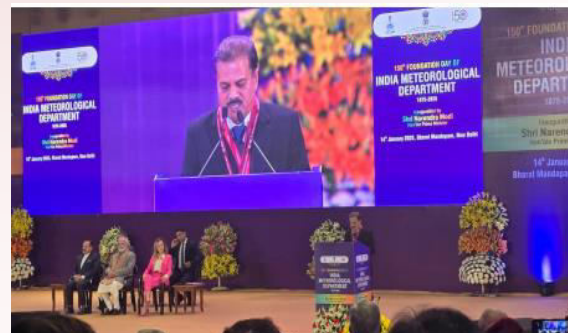
Hon'ble Prime Minister addressed the Nation during the inaugural ceremony of IMD's Foundation Day

THE MAIN ACTIVITIES OF THE PROGRAMME

Hon'ble PM addressed the Nation during the inaugural ceremony of IMD's Foundation Day. In his address to the nation, Hon'ble Prime Minister appreciated the role of IMD in advancing India's scientific progress. He highlighted IMD's contributions to disaster management, weather forecasting and climate resilience. He lauded IMD's growing infrastructure and its positive impact on sectors like agriculture and the blue economy and expressed confidence in India's future role in global meteorological advancements. He appreciated weather forecasting by IMD by quoting various examples. He further said that the achievement of IMD shows scientific progress of the country as the scientific research becomes fruitful only when it benefits the poor people of the society and the service of IMD reached the each section of the society. On this occasion, Hon'ble Prime Minister launched Mission Mausam with an objective to make India a weather ready and climate-smart nation. Mission Mausam is a symbol of India's commitment towards sustainable future and future readiness.



Hon'ble Prime Minister of India launched Mission Mausam with an objective to make India a weather ready and climate-smart nation



Dr. Mrutyunjay Mohapatra, DG IMD presented the Welcome Address



Significant Events



Hon'ble Prime Minister released the Coffee Table Book showing the successful journey of 150 years of IMD

Dr. Jitendra Singh, HMoES in his address appreciated IMD and described detailed achievements of IMD including the improvement in forecast accuracy in recent decades and improvement in observation, modeling and communication infrastructure of IMD.

The Honorable Prime Minister of India released customized My Stamp and a Coin commemorating 150 years of IMD



Hon'ble Prime Minister, released the customized My Stamp and a Coin commemorating 150 years of IMD

Prof. Celeste Saulo, Secretary General of WMO also addressed the gathering and appreciated IMD for its role in global arena by providing observation, modeling, communication, forecasting and advisory support to different countries, especially south Asia, southeast Asia, middle East, Bay of Bengal and Arabian sea region.

About 3000 delegates participated in the function. Hon'ble PM interacted with the students who won the prizes in national level Olympiad organised by IMD to commemorate 150 years of IMD.



Hon'ble Prime Minister, Dr Jitendra Singh, HMoES & Prof. Celeste Saulo released the VISION-2047

VISIT OF HON'BLE PRIME MINISTER TO IMD EXHIBITION STALL.



Hon'ble Prime Minister Visited IMD Exhibition Stall



Secretary, MoES; Director General, IMD; Director IITM, Pune and other dignitaries visited exhibition at Bharat Mandapam

As part of the grand celebration of 150 years of IMD, several workshops were organized by IMD as follows:

WEATHER SERVICES FOR WOMEN

A one-day seminar on "Weather Services for Women" was organized on 3rd January, 2025, at Mahika Hall, Ministry of Earth Sciences (MoES), New Delhi. The event aimed to highlight gender considerations in meteorology, promote women's representation in the field, and discuss the impact of climate on women's health and social conditions. The workshop provided a platform for experts, policymakers, and stakeholders to exchange ideas and explore innovative approaches to integrating gender perspectives into weather services.

The workshop was graced by several eminent personalities, including:

Chief Guest : Dr. Parvinder Maini, Scientific Secretary, Office of the Principal Scientific Adviser, Government of India

Secretary, MoES : Dr. M. Ravichandaran

DGM, IMD : Dr. M. Mohapatra

Guest of Honour : Dr. Swati Basu, Former Scientific Secretary, Office of the Principal Scientific Adviser

: Smt. Shubha Thakur, Additional Secretary, Department of Agriculture & Farmers Welfare (DoA&FW)

The workshop proceeded with the technical and panel discussion sessions



A one-day seminar on "Weather Services for Women" was organized on 3rd January, 2025, at Mahika Hall, Ministry of Earth Sciences (MoES), New Delhi

WEATHER AND YOUTH (WAY)

One-day National workshop on "Weather and Youth (WAY)" was organized at Mahika Hall, Prithvi Bhawan, MoES, New Delhi on 11th January, 2025. The workshop saw the launch of the interactive 'Weather and Youth' Portal to engage young Indians. It concluded with inspiring IMD Young Scientists' Vision 2047 strategies, spotlighting youth in advancing weather & climate services.



One-day National workshop on "Weather and Youth (WAY)" was organized at Mahika Hall, Prithvi Bhawan, MoES, New Delhi on 11th January, 2025

RUN FOR MAUSAM

The 'Run for Mausam' event was organised on January 12, 2025 at Jawaharlal Nehru Stadium, New Delhi, bringing together people in support of climate action for a sustainable future.

The event was graced by **Dr. M. Ravichandran**, Secretary, MoES, and **Dr. M. Mohapatra**, DG IMD, this event highlighted the importance of coming together as a society for our nation. Over 750 participants run for Mausam during the event.



The 'Run for Mausam' event was organised on January 12, 2025 at Jawaharlal Nehru Stadium, New Delhi, bringing together people in support of climate action for a sustainable future

NATIONAL SYMPOSIUM ON 75 YEARS OF MAUSAM JOURNAL

One day National Symposium on “Seventy-Five Years of Accomplishment of Mausam: Journal of Meteorology, Hydrology and Geophysics” was organized at Mahika Hall, Prithvi Bhawan, MoES, New Delhi on 13th January, 2025. The symposium was inaugurated with the ceremonial lighting of the lamp by esteemed dignitaries **Dr. R. R. Kelkar**, Ex-DG, IMD; **Dr. M. Mohapatra**, DG IMD; **Dr. D. S. Pai**, Sc. ‘G’ and **Dr. V. K. Soni**, Sc. ‘F’.

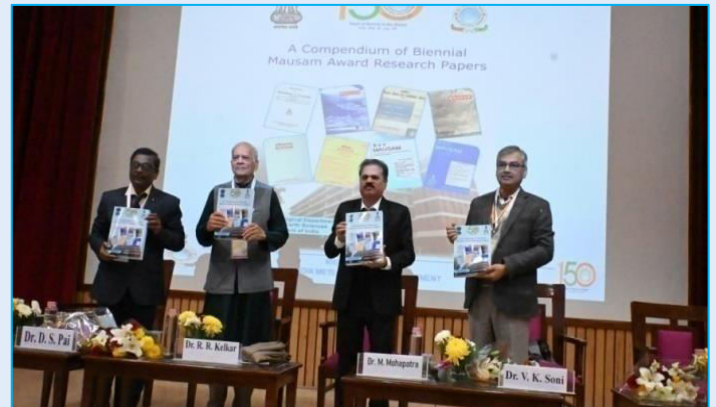
The event proceeded with technical and panel discussion sessions.

During the occasion, the 31st Biennial Mausam Award was conferred upon **Dr. Mrutyunjay Mohapatra**, **Smt. Monica Sharma**, **Dr. Sunitha S. Devi**, **Smt. Bharati S. Sabade** and **Shri S. V. J. Kumar** for their research paper entitled “Frequency of genesis and landfall of different categories of tropical cyclones over the North Indian Ocean”.



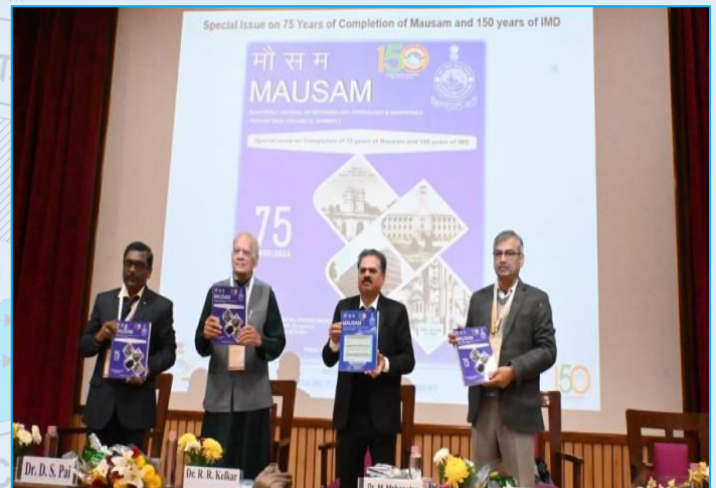
The 31st Biennial Mausam Award was conferred upon **Dr. Mrutyunjay Mohapatra**, **Smt. Monica Sharma**, **Dr. Sunitha S. Devi**, **Smt. Bharati S. Sabade** and **Shri S. V. J. Kumar**

A booklet of all Biennial Mausam Award Papers namely, **Compendium of Biennial Mausam Award Papers** was compiled and launched during the event by **Dr. R. R. Kelkar**.



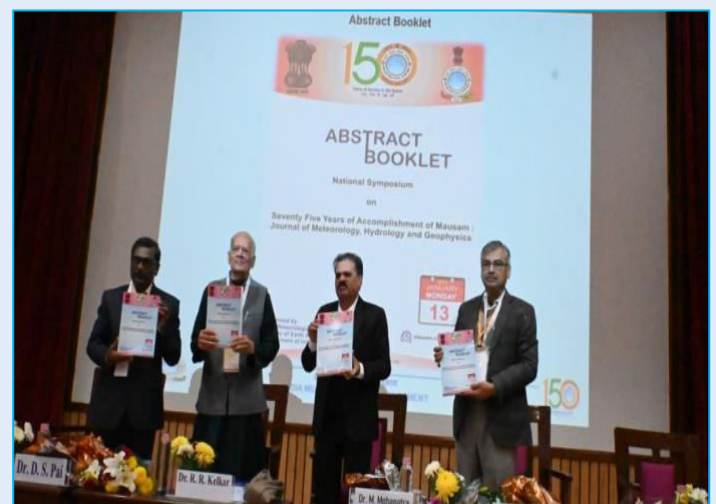
Compendium of Biennial Mausam Award Papers was launched during the event by **Dr. R. R. Kelkar**

The 29th special issue, commemorating the completion of 75 years of *Mausam* and 150 years of the India Meteorological Department (IMD) was also launched by the dignitaries present on the dais.



The 29th special issue, commemorating the completion of 75 years of *Mausam* and 150 years of the India Meteorological Department (IMD) was also launched

Book on abstracts was also released.



Book on abstracts was also released by the dignitaries

REPUBLIC DAY CELEBRATION

The Tableau of India Meteorological Department, Ministry of Earth Sciences made its debut in the Republic Day Parade this year, showcasing the advancements and contributions of the India Meteorological Department since 1875. The Tableau also depicted continued support of the Ministry's scheme for development of weather and climate science and services including "Mission Mausam" recently launched by Hon'ble Prime Minister of India, Shri Narendra Modi Ji. The Tableau of IMD, MoES presented a narration of empowerment of the society to save life and property from weather related disasters, like the cyclones, thunderstorms, lightning, heat wave, heavy rainfall etc. It showcased multi-faceted sectoral applications of weather and climate for the farmers, fishermen community on one hand and to industries like aviation, ports & shipping on the other hand.



"मौसम के बदलते रंग, 150 वर्षों से आईएमडी है संग"

The Tableau of India Meteorological Department, Ministry of Earth Sciences made its debut in the Republic Day Parade-2025

The National Flag was hoisted at all offices of IMD on 26th January, 2025.



Flag hoisting at Ahmedabad



Flag hoisting at MC Shillong

CELEBRATION OF INTERNATIONAL WOMEN'S DAY (IWD)

International Women's Day (IWD) was celebrated on 8th March to honor the remarkable achievements of women across various sectors while also acknowledging the challenges they continue to face. The IWD 2025 campaign theme, "For ALL Women and Girls: Rights, Equality, Empowerment," highlights the need for collective action to ensure equal rights, power and opportunities for all. This year, the Fit India Mission, under the Sports Authority of India, has planned a week-long celebration from 3rd to 9th March, 2025 to promote fitness, mental well-being, healthy nutrition, and social inclusion. Aligned with the theme "Stronger Her, Healthier Future," the initiative encourages women to prioritize their health and well-being. The official slogan for this campaign is "Fitness ka dose, Aadha ghanta roz" reinforcing the importance of daily physical activity.

As part of these celebrations, DGM, HQ, has organized women-centric activities from 3rd to 7th March, 2025. All women employees (Regular / Project Staff / Research Students / Housekeeping Staff) posted at DGM, HQ including RMC, New Delhi and NCS participated in the event. Celebration commenced on March 3, 2025, the event empowered women through engaging activities centered on health, fitness, and unity, leading to enthusiastic participation and a strong sense of community wellness.



International Women's Day (IWD) was celebrated on 8th March to honor the remarkable achievements of women across various sectors

The details of the programs conducted from 3rd to 7th March 2025 as part of the International Women's Day celebrations are given below:

1. Self Defence Training- 3rd-7th March 2025



Self Defence Training- 3rd - 7th March, 2025

2. Yoga Session - 4th March, 2025



Yoga Session - 4th March, 2025

3. Sport Activities - 6th March, 2025



Sport Activities - 6th March, 2025

4. POSH Session - 7th March, 2025



POSH Session - 7th March, 2025

5. Celebration of IWD at MC Lucknow



Celebration of IWD at MC Lucknow

WORLD METEOROLOGICAL DAY 2025

IMD celebrated World Meteorological Day 2025 at Mahika Hall, Ministry of Earth Sciences, New Delhi on the theme "Closing the early warning gaps together" on 23rd March, 2025.



IMD celebrated World Meteorological Organisation Day 2025 at Mahika Hall, Ministry of Earth Sciences, New Delhi



WMO Day 2025 Celebration at MWO Kolkata



WMO Day 2025 Celebration at MC Sri Vijaya Puram



WMO Day 2025 Celebration at DWR Gopalpur



WMO Day 2025 Celebration at MO Puri



WMO Day 2025 Celebration at MC Ranchi

MoU

Memorandum of Understanding (MoU) between IMD and DST , Government of Mizoram at Aizawl Mizoram

On 24th February, 2025 Government of India through Ministry of Earth Sciences - India Meteorological Department (IMD) & State Government of Mizoram through Directorate of Science & technology, signed MoU in the august presence of Hon'ble CM Pu Lalduhoma and Director General of Meteorology (IMD) Dr. Mrutyunjaya Mohapatra. In MoU, DST will provide space and other necessary support to IMD for setting up Meteorological Centre (State Headquarters) at Science Centre, Berawtlang, Aizawl. IMD will provide meteorological data for climate study and weather services.

MoU with National Building Construction Corporation Ltd.

IMD signed a Memorandum of Understanding (MoU) with National Building Construction Corporation Ltd. on 11th March, 2025.

MoU with Central Electricity Authority

IMD signed a Memorandum of Understanding with Central Electricity Authority to improve coordination and collaboration between both the agencies on 21st March, 2025.

Human Resource Development Activities

STAKEHOLDER WORKSHOP

Stakeholder workshop hosted by Meteorological Centre Lucknow to commemorate 150 years of the IMD at Jade 2 Hall, Hotel Holiday Inn, Lucknow on 02-01-2025, "The Chief Guest was Shri G. S. Naveen Kumar (IAS), Secretary, Irrigation and water Resources, Government of Uttar Pradesh, Guest of Honour was Dr. Sanjay Singh, Uttar Pradesh Council of Agricultural Research, Government of Uttar Pradesh, Dr. R. K.

Jenamani, Scientist-G, IMD New Delhi, Dr. S. D. Kotal, Deputy Director General of Meteorology, RMC New Delhi participated in workshop and Dr. Mrutyunjay Mohapatra, DG IMD, New Delhi participated through Video Conferencing in the workshop. More than 50 participants from key stakeholders' departments including experts and policy makers from Uttar Pradesh participated in the workshop to discuss recent advancements in weather and climate services in Uttar Pradesh. Our First Hindi magazine of MC Lucknow "Kshitij" was released by the dignitaries in stakeholder Workshop.



Stakeholder workshop hosted by Meteorological Centre Lucknow to commemorate 150 years of the IMD at Jade 2 Hall, Hotel Holiday Inn, Lucknow on 02-01-2025



First Hindi magazine of MC Lucknow "Kshitij" was released by the dignitaries in stakeholder Workshop

Dr. Rizwan Ahmed, Sc. 'D' Delivered a lecture on **"Now-casting Services by IMD"** in the workshop organized in collaboration with RMC Nagpur and Nagpur Divisional Commissioner Office on 6th March, 2025.



Dr. Rizwan Ahmed, Sc. 'D' Delivered a lecture on "Now-casting Services by IMD"

Dr. M. Mohapatra, DG IMD participated online in the inaugural ceremony of Eighth WMO Workshop on Monsoon at IITM, Pune on 17th March, 2025 and addresses the participants and delivered a talk on Multihazard early warning system in India.

Dr. M. Mohapatra, DG IMD participated as Chief Guest in the one Day Stakeholders Workshop jointly hosted by IIT, Delhi; CICERO Center for International Climate Research, Oslo, the National Center for Atmospheric Research, Indian Institute of Tropical Meteorology at IIT Delhi on 18th March, 2025.

Dr. M. Mohapatra, DG IMD participated in the seminar on Next Generation Aeronautical Weather Services for Military & Civil Operations on the Occasion of World Meteorological Day 2025 at Jaswant Hall, Air Force Station, New Delhi on 19th March, 2025.

MEETINGS / CONFERENCES

Dr. M. Mohapatra, DG IMD addressed the Inaugural Session of the Stakeholders Meeting at Meteorological Centre, Lucknow on 2nd January online. He also addressed online the similar stakeholders meeting in Bengaluru on 10th January, 2025.

Dr. M. Mohapatra, DG IMD participated in the meeting to discuss the issues related to renewable Energy Forecasting under Chairmanship of Secretary, MoES and Secretary Power at PrithviBhawan on 2nd January, 2025.

Dr. V. K. Soni, Scientist 'F', **Dr. D. R. Pattanaik**, Scientist 'F' & **Shri H. S. Sawhney**, Scientist 'E' attended a follow-up meeting held under the co-chairmanship of Secretary (Power) and Secretary (MoES) on 2nd January, 2025 at Prithvi Bhawan to review the progress of implementation of action points emerged during a meeting held on 03.07.2024 to discuss the issues related to Renewable Energy Forecasting.

Dr Sreekanth T.S., Sc. 'D' and **Dr. Rizwan Ahmed**, Sc. 'D' Participated and presented poster in one day workshop on Radar at 7th Conference on India RADAR Meteorology-Irad-2025 hosted by the India Meteorological Department (IMD) during 05 - 08 January 2025.

Dr. Ashutosh Misra, Sc. 'D', **Dr. Jaya Dhami Parihar**, Sc. 'D' and **Dr. Asha Latwal**, Sc. 'C' attended the popular talks on **"Growth of Indian Seismology since its inception as IMD Seismology unit and Collaborative Research"** by **Dr. O. P. Mishra**, Director, National Centre for Seismology (NCS), New Delhi on 6th January, 2025 through virtual mode.

Shri Abhimanyu Chauhan, Sc. 'C' attended a meeting regarding **"Digital Monitoring of Agriculture, Crop Acreage and Production Estimation for Gujarat State using Remote Sensing, GIS and Other Technologies"** at New Sachivalaya Gandhinagar on 7th January, 2025

Dr. Gargi Rakshit, Sc. 'C' attended the In-person meeting on **Mutual Co-operation and Data Sharing Program for Continuously Operating Reference Stations (CORS)** in Survey of India, Western printing office (Wing), Palam Village Road, New Delhi on 10th January, 2025.

Dr. Ashok Kumar Das, Sc. 'F' and **Shri Gajendra Kumar**, Sc. 'F' attended NDMA program on '**Scalability of Smritivan Memorial as National Museum**' dated 18 and 19 January, 2025 at Bhuj, Gujarat.

Dr. M. Mohapatra, DG IMD participated in the meeting with Capt. Anubha Rathaur, Shiv Nadar University to explore possibilities of collaboration and internship between two organizations on 20th January.

Dr. A. K. Mitra, Sc. 'F' attended the virtual meeting on 20th January, 2025 regarding Establishment of two DBNet Stations and one GeoNetCast Station under the MoES "**Mission Mausam**" project at NCMRWF.

Dr. M. Mohapatra, DG IMD participated in a meeting with Ms. Livleen K. Kahlon, Senior Fellow and Associate Director at TERI, IHC, on 21st January. The discussion focused on IMD's climate change research and TERI's efforts in structuring climate education within the informal curriculum for middle and senior school students.

Dr. M. Mohapatra, DG IMD participated in the 8th Session of the WMO's Task Force on Elections and Appointments on 21st January.

Dr. M. Mohapatra, DG IMD, attended a meeting with M/s. Navariti Innovation Pvt. Ltd., a start-up, to explore the functionalities and benefits of IoT and AI-powered smart systems for agriculture.

Dr. M. Mohapatra, DG IMD participated in the meeting at Reserve Bank of India to discuss the evolving temporal and spatial temperature outlook and possible development of La Nina conditions on 27th January.

Dr. V. K. Soni, Scientist 'F' attended Second Meeting of the Thematic Working Group - Health for National Adaptation Plan (NAP) on 27th January, 2025 at Nirman Bhawan, New Delhi.

Dr. Ashutosh Misra, Sc. 'D' and **Shri J. P. Sabale**, Met-A attended the meeting under the chairmanship of Sugar Commissioner, Maharashtra State "**to discuss impact of excess rainfall during monsoon and high temperatures during post monsoon on sugarcane acreage, production, productivity and sugarcane crushing during 2024-25 season in Maharashtra**" at Sugar Commissionerate Office, Sakhar Sankul, Shivajinagar, Pune on 28.01.2025.

Dr. M. Mohapatra, DG IMD participated in the meeting of the Hackathon Committee on 29th January.

Dr. Manorama Mohanty, Sc. 'F', **Dr. Sanjeev Dwivedi**, Sc. 'D' and **Sk, Anisur Raheman**, Met-B, MC Bhubaneswar, attended online meeting regarding selection of site for installation of 'X' Band Radar at Bhubaneswar for Urban Meteorology, on 30.01.2025.

Dr. M. Mohapatra, DG IMD participated in the 8th Meeting of NDMA with respect to Earthquake Museum at Gujarat on 4th February, 2025.

Dr. M. Mohapatra, DG IMD participated in the 83rd Session of the WMO Bureau Meeting (BuR-83) at WMO HQ, Geneva during 5th to 9th February, 2025.

Dr. M. Mohapatra, DG IMD inaugurated the training of Private Secretaries of IMD at DGM Conference Room on 10th Feb, 2025.

Dr. M. Mohapatra, DG IMD participated in the Meeting with Dr. Ashok Gadgil, IECC's Affiliate and UC Berkeley's Distinguished Professor Emeritus of Civil and Environmental Engineering and Mr. Piyush Narang, Policy Analyst, University of Berkeley, California on 10th February, 2025.

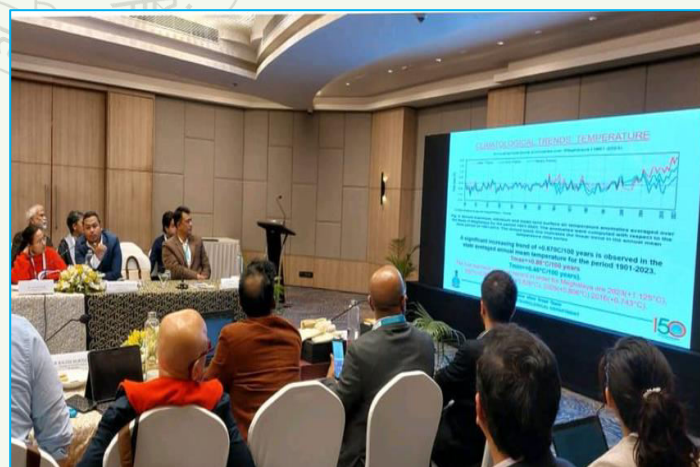
Dr. M. Mohapatra, DG IMD participated in the "Concluding and Way Forward Session of the RESSUMMIT 2025 - Disaster Management & Infrastructure Resilience in Changing Climate and Environmental Risks Workshop" organized by International Centre for Antimicrobial Resistance Solutions (ICARS) at Greater Noida Extension Centre on 11th February, 2025.

Dr. M. Mohapatra, DG IMD along with **Dr. Soma Sen Roy** and **Mr. Akhil Srivastava** participated in the International Workshop on Heatwave 2025 at Vigyan Bhawan, New Delhi on 13th February, 2025.

Dr. M. Mohapatra, DG IMD participated in the Visit of BISAG-N team from Ministry of Electronics and Information Technology (MeitY), Electronics Niketan on 13th February, 2025.

Dr. M. Mohapatra, DG IMD participated in the Ninth Session of the Task Force on Elections and Appointments on 18th Feb, 2025.

Shri Thangjalalhouvum, Sc. 'D', MC Shillong along with Officer **Shri R Pariong**, Met-B attended the **UK-India Knowledge Exchange Workshop on AI-based Climate Modelling Centre and Policy Making** on 20th February, 2025 (Thursday) at Vivanta Meghalaya, Shillong.



Shri Thangjalalhouvum, Sc. 'D' and Shri R Pariong, Met-B MC Shillong

Shri Pradeep Sharma, Sc. 'D' attended a Post Monsoon Inter-State Meeting on "**Flood Forecasting Arrangements Monsoon-2024**" for Tapi, Lower Narmada and Daman ganga Basins at Gandhinagar on 21st February, 2025.

Shri Thangjalalhouvum, Sc. 'D' attended online meeting on **Heat Wave Forecasting and Warning Services** under the Chairmanship of DGM, IMD on 24.02.2025.

Dr. Kripan Ghosh, attended the **"20th meeting of Project Monitoring and Advisory Committee (PMAC) of IMD"** to monitor the periodic progress of the projects under ACROSS-IMD and to suggest suitable remedial measures for successful implementation of the activities on 25th February, 2025.

Shri Ramashray Yadav, Sc. 'D' and **Shri Pradeep Sharma**, Sc. 'D' attended FDP STORM and Heat Wave Preparedness meeting chaired by DGM on 25/02/25 through online mode.

Dr. M. Mohapatra, DG IMD participated in the 29th Standing Advisory Committee meeting at Positional Astronomy Centre, Kolkata on 3rd March, 2025.

Dr. M. Mohapatra, DG IMD participated online in the 9th Session of the WMO's Task Force on Elections and Appointments on 4th March, 2025.

Dr. M. Mohapatra, DG IMD had meeting with Shri Sanjay Gakhar, Vice Chairman Multi Commodity Exchange of India Ltd. on 5th March.

Shri Satyendra Kumar, Met.A attended the State Mock Exercise on Earthquake Disaster training conducted by SDMA the on 10-11 March, 2025.

Dr. Kripan Ghosh, Head Agrimet Division, Pune, attended meeting with the representatives from WMO and Global Water Partnership to discuss the "Pre-concept note on Integrated Drought Management for South Asia" through virtual mode on 11th March, 2025.

Dr. M. Mohapatra, DG IMD participated in the meeting for development of Urban Flood Risk Management Framework for Ahmedabad, Delhi and Mumbai under the Chairmanship of Union Home Secretary on 12th March.



The indigenous Lidar for measurement of aerosols developed by DRDO was handed over to IMD by DRDO

Dr. M. Mohapatra, DG IMD had meeting with the Director General, Defence Research & Development Organisation (DRDO)

on 12th March regarding handing over of Aerosol Radar to IMD. The indigenous LIDAR for measurement of aerosols developed by DRDO was handed over to IMD by DRDO. The aerosol LIDAR is developed by the Indian Research and Development Establishment (IRDE), a constituent Lab of DRDO. The LIDAR system was handed over by Dr. B. K. Das, DG (ECS), DRDO.

Dr. M. Mohapatra, DG IMD had meeting with Shri Abhiyant Tiwari and Ms. Ritika Kapoor of National Research Development Corporation regarding implementation of Heat Wave Action Plan on 12th March.

Shri Sunny Chug, Sc. 'D', **Dr. S. B. Saha**, Met-B and **Shri C. Chakraborty**, Met-A, MWO Kolkata, attended the Coordination Meeting between IMD and AAI held on 12.03.2025 to implement in-house developed RVR and Met. Parameters display at ATC and AOCC.

Shri Raja Acharya, Met.-B, participated virtually in the 8th WMO International Workshop on Monsoons (IWM-8) organised through hybrid mode at IITM Pune during 17-21st March, 2025.

Dr. Rizwan Ahmed, Sc. 'D' delivered a lecture on Heat waves and Its mitigation at a Maharashtra government-organized workshop focused on Heat wave forecasting, impacts and mitigation and preparedness at Washim, organized by the Maharashtra Government Disaster management Authority on 19th March, 2025.

Dr. Gargi Rakshit, Sc. 'C' attended Survey of India (SOI) one day event AAYAM 2025 **"Empowering Geospatial Solutions: Future-Ready Mapping & Collaboration"** focussed on the evolving landscape of geospatial mapping and drone-enabled surveying, underscoring the pivotal role of geospatial data in national infrastructure development, economic advancement and governance on 17th March, 2025 at Vivanta by Taj, Dwarka, New Delhi.

Dr. A. K. Mitra, Sc. 'F' attended **GSICS Annual and Executive Panel (EP-25) meeting** hosted by CMA from 17th to 21st March 2025 held in Changchun, Jilin Province, China. The Global Space-based Inter-Calibration System (GSICS) is an international collaborative effort initiated in 2005 by the World Meteorological Organization (WMO) and the Coordination Group for Meteorological Satellites (CGMS) to monitor, improve and harmonize the quality of observations from operational weather and environmental satellites of the Global Observing System (GOS).

Shri Raja Acharya, Met.-B, attended WMO GOOS webinar on monitoring the performance of Voluntary Observing Ships (VOS) and Data Buoy Cooperation Panel (DBCP) platforms held on 18th March, 2025.

Shri H. S. Sawhney, Sc 'E' attended a meeting held under the chairmanship of Joint Secretary (MNRE) to discuss the representation from RE industry on Optimising DSM for RE projects on 19th March, 2025 at Atal Akshaya Urja Bhawan, MNRE.

Dr. Gopi Nath Raha, Sc. 'E', MC Gangtok, attended a meeting with Secretary, Dept of Science and Technology, Govt. of Sikkim regarding augmentation of AWS network in the State of Sikkim, on 19th February, 2025.

Dr. Ashutosh Misra, Sc. 'D', **Dr. Jaya Dhami Parihar**, Sc. 'D' and **Dr. Asha Latwal**, Sc. 'C' attended an interaction meeting with delegates from University of Reading, United Kingdom (UK) and Meteorological Service Singapore (MSS) and officials from IMD, Pune at CR&S, Pune on 20th March, 2025.

Dr. M. Mohapatra, DG IMD participated in the preparatory meeting of World Meteorological Organisation and International Oceanographic Commission (WMO-IOC) Joint Collaborative Board (JCB) meeting on 18th March. It was followed by regular online meeting with all the members on 24th March, 2025 to discuss about the necessity for enhanced collaboration and strategic planning to address pressing oceanic & meteorological challenges and prioritize work areas for further improvements.

Dr. M. Mohapatra, DG IMD participated in the meeting on Heat Wave preparedness and Mitigation Measures convened by National Disaster Management Authority on 20th March, 2025. **Dr. Naresh Kumar**, Sc. 'F' gave a presentation on Heat Wave monitoring and forecasting by IMD.

Sri. K. N. Mohan, Sc. 'G', RMC Guwahati and **Dr. S. O. Shaw**, Sc. 'F' attended Review meeting of the Inception Report submitted by the Consultancy Service provider for 15 Master Plans organized by Brahmaputra Board on 26th March, 2025.

Dr. R. K. Giri, Sc. 'F', **Dr. A. K. Mitra**, Sc. 'F' and **Dr. Gargi Rakshit**, Sc. 'C' attended virtual meeting "Collaboration on Real-Time GNSS Data Processing (IMD & IIT Tirupati)" with IIT Tirupati on collaboration on real-time processing of GNSS data using GAMIT software on 28th March, 2025.

CONFERENCES

Dr. M. Mohapatra, DG IMD participated in the 7th International Conference on India Radar Meteorology iRADat Indian Institute of Geomagnetism at Navi Mumbai on 6th January, 2025.

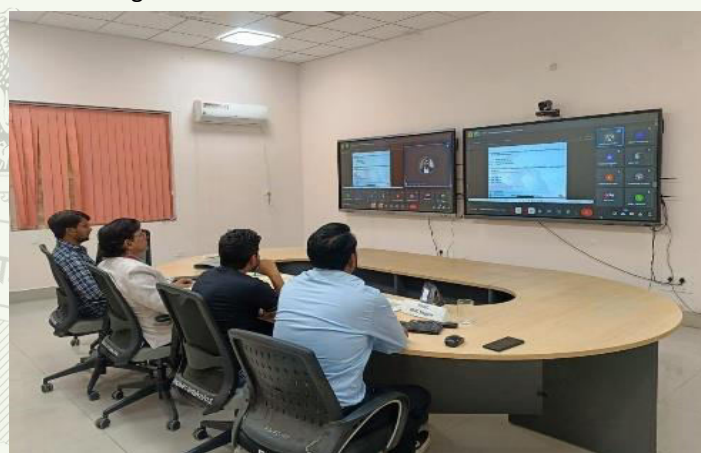
Ms. Vijeta, Scientific Assistant, represented the Regional Meteorological Center Nagpur in the National Hindi Scientific Seminar on the topic of "Uninterrupted Weather Forecasting and Applications" organized by the National Centre for Medium Range Weather Forecasting Center (NCMRWF) on 24 - 25 March 2025. Ms. Vijeta presented on the application of machine learning and artificial intelligence in weather forecasting.

TRAININGS

Aerodrome Meteorological Office Nagpur, DBAI Airport, Nagpur organized Familiarization course in Aviation Meteorology on 6/7th Feb, 2025.

The Aerodrome Meteorological Office (AMO), Nagpur, in collaboration with the Regional Meteorological Centre (RMC), Nagpur, successfully conducted a two-day training workshop on

aviation (6-7th Feb, 2025) meteorological services for officers and staff from 22 airports, with a total participation of over 100 meteorologists across Madhya Pradesh, Chhattisgarh, and Vidarbha. The primary objective of this training was to enhance the competency of meteorologists and scientists, ensuring improved aviation safety and operational efficiency. The workshop was led by key organizers and experts, including **Dr. R. Balasubramanian**, Sc. 'F', RMC Nagpur and **Dr. Rizwan Ahmed** Sc. 'D', who played pivotal roles in the training sessions. In addition to participants from Madhya Pradesh, Chhattisgarh, and Vidarbha, officers from RMC Kolkata, RMC Chennai, the Airport Authority of India (AAI) Nagpur, and ICAR Nagpur also attended the workshop. Their participation fostered inter-regional collaboration and facilitated the exchange of expertise, further strengthening aviation meteorology practices across different regions.



Aerodrome Meteorological Office (AMO) Nagpur, DBAI Airport, Nagpur organized Familiarization course in aviation Meteorology on 6/7th Feb, 2025 for all airports under RMC Nagpur

Shri Chinmay R. Khadke, Sc. 'D' and **Shri Gargi Rakshit**, Sc. 'C' attended the training on INSAT-3DS MMDRPS system training at Space Application Centre (SAC), Ahmedabad during 12th to 19th February, 2025.

Sat. Met. Division IMD conducted the joint Cal/Val campaign with SAC (ISRO), Ahmedabad as Project Director for Calibration/Validation of INSAT-3DR and newly launched satellite INSAT-3DS at Bhuj, Gujarat during 3rd to 6th March, 2025.

LECTURES/ TALK/ WEBINAR

Dr. Soumi Chakravorty and **Dr. Ananya Karmakar** attended a webinar on "Climate change, health and outdoor workers in urban Vietnam : linking vulnerability, extreme weather and policy" on 27th January, 2025.

Dr. M. Mohapatra, DG IMD delivered an online lecture on "Space Technology for Combating Meteorological Disasters" during the Webinar supported by International Society for Photogrammetry and Remote Sensing Students Consortium (ISPRS) for the WG V/4 and organized by North Eastern Space Applications Centre, Dubai on 20th March, 2025.

Dr. M. Mohapatra, DG IMD delivered Institute lecture at IIT Bombay on IMD's Glorious 150 years on 26th March, 2025.

TALK

A popular talk on “Climate Change and the Mirage of Sustainable Development” by Prof. B. N. Goswami, was organized in hybrid mode at RMC Guwahati on 2nd Jan, 2025.

A scientific talk on the topic “IMD’s role in forecasting of landslides in North Bengal region” was given by Dr. Saibal Ghosh, DG, GSI at Akash Mancho, RMC Office, Alipore, Kolkata, on 14th January, 2025.

Dr. Kripan Ghosh, Sc. ‘F’, Dr. Ashutosh Misra, Sc. ‘D’, Dr. Jaya Dhami Parihar, Sc. ‘D’ and Dr. Asha Latwal, Sc. C attended the invited talk on “Climate Change Threat to Society : Solution for Natural Hazards” by Dr. Manoj Khare, Sc. ‘G’ and HoD, HPC-ESEG Group, CDAC, Pune, as a part of celebration of 150 Years’ Service of IMD to the Nation at CR&S, IMD, Pune on 14th January, 2025.

Dr. Rizwan Ahmed, Sc. ‘D’ delivered an Invited Talk in a one-day workshop organized by RNTU university Bhopal and IMS Chapter Bhopal on “Satellite Application in weather & climate” 24 January, 2025.

Dr. Satyaban B. Ratna, Sc. ‘E’, delivered an expert talk titled “Unlocking the Potential of Climate Services : Informing Decision-Making for a Resilient Future” on 6th February, 2025, as part of the ATAL Online Faculty Development Programme (FDP) on “Leveraging Artificial Intelligence for Climate and Sustainability”, organized by K. J. Somaiya Institute of Technology, Mumbai.

Dr. M. Mohapatra, DG IMD delivered an invited talk (online mode) on “Research to Operation and Operations to Services: transitions and Communications” during Eighth WMO Workshop on Monsoon at IITM, Pune on 21st March.

Dr. M. Mohapatra, DG IMD participated as Chief Guest during the WMO Day 2025 celebrations organized by South Asian Meteorological Association (SAMA) and Humanitarian Observatory Initiative of South Asia (HOISA) through VC on 23rd March and gave an online talk on Bridging the early warning gap together.



Dr. M. Mohapatra, DGM IMD participated as Chief Guest in the WMO Day celebrations organised by NPL

Dr. M. Mohapatra, DG IMD participated as Chief Guest in the WMO Day celebrations organised by National Physical Laboratory, Council for Scientific and Industrial Research (NPL-

CSIR) on 24th March, 2025 and gave a talk on Bridging the early warning gap together.

PANEL DISCUSSION/ INTERVIEW

Shri K. N. Mohan, Sc. ‘G’, Dr. S. O. Shaw, Sc. ‘F’, Sunit Das & C. Amarnath, Sc. ‘D’ attended panel discussion on “Importance of Promoting the science of Meteorology for social well being in North-East India” organized by Gauhati University on 25th March, 2025.

FOREIGN DEPUTATION

Dr. M. Mohapatra, DG IMD was on deputation to Geneva, to participate in 83rd Session of WMO Bureau during 6-7 Feb, 2025.

Shri S. K. Manik, Sc. ‘D’ and Shri V. D. Roy, CWC, were on deputation to Geneva, Switzerland participate in WMO pilot study of global riverine flood prediction products in Geneva, Switzerland during 10-12 February, 2025.

Dr. Naresh Kumar, Sc. ‘F’ was on deputation to Jakarta, Indonesia, to participate in First Meeting of the Task Team on the Business Continuity Management, in Jakarta, Indonesia during 10-14 February, 2025.

Mr. Sachin Yadav and Dr. Partha Roy, Sc. ‘C’ were on deputation to Tokyo Japan participate in Weather Radar Workshop Tokyo Japan during 12-14 February, 2025.

Dr. Satyaban B Ratna, Sc. ‘E’ was on deputation to Victoria, Australia to participate in CLIVAR Climate Dynamics Panel 5th Annual Workshop at Victoria, Australia during 24-27 Feb, 2025.

Dr Ananda K Das, Sc. ‘F’ was on deputation to Bangkok to participate in Twelfth Asia-Pacific Forum on Sustainable Development Bangkok during 24-28 February, 2025.

ACHIEVEMENTS /APPRECIATIONS /AWARDS RECEIVED

AWARDS



American Meteorological Society conferred the Scientific and Technological Activities Commission Outstanding Service Award, 2025 upon Dr. Mrutyunjay Mohapatra

American Meteorological Society conferred the Scientific and Technological Activities Commission Outstanding Service Award,

2025 upon **Dr. Mrutyunjay Mohapatra** for enhancing tropical cyclone prediction and warning systems in the Indian Ocean region through exceptional leadership and services.

Dr. Somnath Mahato received IEEE Young Professional of Year award on 11th January, 2025 at Pune.

Prananath College, Khordha, Odisha conferred the Prananath Samman upon **Dr. M. Mohapatra**, DG IMD in recognition to his outstanding contributions and achievements in the field of weather monitoring and forecasting on 28th January.



Prananath College, Khordha, Odisha conferred the Prananath Samman upon Dr. M. Mohapatra, DG IMD

Dr. M. Mohanty, Sc. 'F', MC Bhubaneswar was awarded with Odisha Women Award by Evergreen Forum at Odisha Women's Conclave 2024-2025, Jaydev Bhawan, Bhubaneswar, on 27.01.2025.

31st Biennial Mausam Award was conferred upon **Dr. Mrutyunjay Mohapatra**, **Mrs. Monica Sharma**, **Mrs. Sunitha Devi**, **Mr. S.V.J. Kumar** and **Mrs. Bharati Sabade** for the best research paper published in journal Mausam entitled "Frequency of Genesis and Landfall of different categories of tropical cyclones over the North Indian Ocean during the biennial period of 2020-2021.

Radhanath Sikdar Institute of Geospatial Science and Technology (RSGIGST) conferred "**Sir Radhanath Sikdar Memorial Award 2025**" upon **Dr. Mrutyunjay Mohapatra**, DG IMD at the GEOSPATIA 2025. The event was organised by the Anthropological Survey of India, Kolkata on 14th February, 2025.



RSGIGST, conferred "Sir Radhanath Sikdar Memorial Award 2025" upon Dr. Mrutyunjay Mohapatra, DG IMD at the GEOSPATIA 2025

Hon'ble Chief Minister of Odisha **Shri Mohan Charan Majhi** honored **Dr. M. Mohapatra**, DG IMD with **Ekamra Shree Award-2025** for his outstanding contribution to the field of Science and early warning services during the function organised by Ekamra Sanskritika Prakashani on the eve of Mahashivratri at Lingaraj Temple, Bhubaneswar, Odisha on 26th February, 2025.



Hon'ble Chief Minister of Odisha Shri Mohan Charan Majhi honoured Dr. M. Mohapatra, DG IMD with Ekamra Shree Award-2025

Ms. Gitanjali Maraskole, Scientific Assistant won All India first (1st) prize in Chess (women) competition during 15th IMD All India sports meet 17-20 February, 2025 at Pune (India).

Smt. Nilima Ninawe, Met-B and **Smt. Sanyogita Meshram**, UDC won All India 2nd prize in Carrom (women) competition during 15th IMD All India sports meet 17-20 February, 2025.

APPRECIATIONS

Shri K. N. Mohan, Sc. 'G' was facilitated by **Lt. Gen. Rajiv Kumar Sahni**, Indian Army for installation of Automatic Weather Stations in Arunachal Pradesh.

RMC Guwahati established its stall in National Conference AGMET- 2025 on Frontier Technologies for weather & climate based decisions in Agriculture and Allied Sectors during 13-15 February 2025 at Assam Agricultural University, Jorhat and won the best stall award.



RMC Guwahati won the best stall award at Assam Agricultural University, Jorhat

Research & Publications

Special Issue of Mausam Published on Completion of 75 years of Mausam and 150 years of IMD. Twenty (20) research articles have been published in **Special Issue of Mausam** (Vol. 76, No. 1), January, 2025 issue.

Following are the research articles published in Mausam and other extra departmental journals which are authored by IMD officials:

Research papers published in Mausam

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Chakrabarti, D., Chug, S., Nath, S. and Sai Krishnan, K.C. 2025, "Technological Evolution of Communication and Dissemination of Meteorological Data and Information", *MAUSAM*, 76, 1, 173–184. DOI: <https://doi.org/10.54302/MAUSAMv76i1.6397>.

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Peshin, S.K., Soni, V., Kumar, A., Kumar, V., Chug, S., Bist, S. and Akram, R. 2025, "India Meteorological Department : A journey of 40-Year of polar meteorology", *MAUSAM*, 76, 1, 215–230. DOI: <https://doi.org/10.54302/MAUSAMv76i1.6473>.

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Dr. Satyaban B. Ratna, Scientist E, published an article titled "tyok;q Isok,a & tyok;q vuqç;ksxksa vkSj mi;ksxdrkZ baVjQsl" in Mausam Manjusha Hindi Magazine, Issue 40, January 2025.

Patent Granted to **Dr. Shirish Yograj Khedikar** International Patent is published at World Intellectual Property Organization under PCT, the link is: https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2025012770&_cid=P22-M6TEWT-65565-1

Publication Number WO/2025/012770

Publication Date 16.01.2025

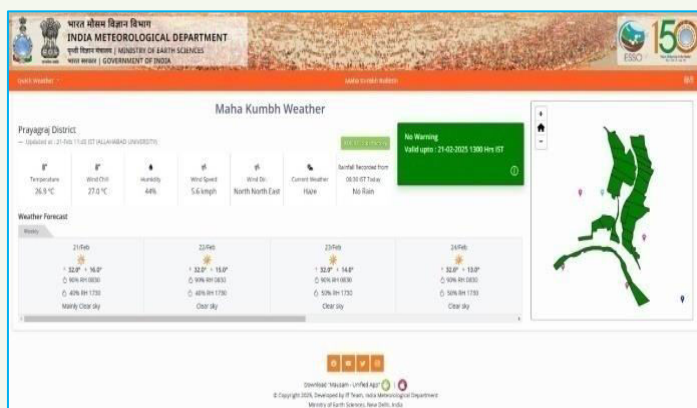
International Application No. PCT/IB2024/056571

Inventors: Shirish Y. Khedikar

RMC Kolkata, prepared the '**CROP WEATHER CALENDAR**' of Kharif rice, Potato and Mustard for Gangetic Alluvial Zone II.

Infrastructure Development & Installations

On January 2, 2025 **MAHAKUMBHA MELA-2025** Weather Webpage and Automatic Weather Observing System (AWOS) was inaugurated by Chief Guest **Shri G.S Naveen Kumar (IAS)** in Stakeholder workshop hosted by Meteorological Centre Lucknow. Dedicated daily Weather Page bulletin issues for Kumbh Mela 2025, “



Dedicated Webpage for Kumbh Mela 2025

IMD operates 1,008 Automatic Weather Stations (AWS), 1,382 Automatic Rain Gauge (ARG) stations, 200 Agro-AWS, 5 Automatic Snow Gauge (ASG) stations, 37 High Wind Speed Recorders (HWSR), and 47 Solar Radiation Stations, as depicted in the table and figure below.

AWS	AGRO-AWS	ARG	ASG	HWSR	RADIATION
1008	200	1382	5	37	47

PWD system was installed at Khushinagar airport in Feb 2025.



PWD system was installed at Khushinagar airport

New 04 AWS and 01 LED Display were installed at Kumbh Mela Prayagraj for providing the Current Weather Forecast (24×7) for pilgrim at Kumbh Mela 2025.

2000 ARG and 450 AWS have been Set up by MC Lucknow for Uttar Pradesh AWS Project.

27 AWS has been Set Up by MC Lucknow under 400 AWS project.

Foundation stone for installation of X-Band Doppler Weather Radar was laid by Sri Keshab Mahanta, Hon. Minister of Science, Tech. & Climate Change, Disaster Management etc. Govt. of Assam of 13.02.2025 in presence of **Shri K. N. Mohan**, Sc. 'G' & Head RMC Guwahati and other dignitaries.



Foundation stone for installation of X-Band Doppler Weather Radar was laid by Sri Keshab Mahanta, Hon. Minister of Science, Tech. & Climate Change, Disaster Management etc. Govt. of Assam

FMO Jalpaiguri, out of 60 ORGs initiated in the previous quarter, 45 are successfully installed at different Schools, Colleges and Tea Gardens located in SHWB under the flagship Programme of Augmentation of Observatories during 150 years of IMD.

SERVICES

DGM IMD has inaugurated METNET Video Help Desk on January 01, 2025, “Now you may address your issues and queries LIVE by visiting CONTACT METNET -> CONNECT NOW on METNET home page. This Video Help Desk can also be used for queries related to eOffice and e-HRMS.



DGM IMD has inaugurated METNET Video Help Desk

During the quarter 5 Farmers awareness programmes (FAPs) were organized across the country.



FAP conducted by AMFU, Mahisapat at Kalaspur Village, Kankada-Had Block, Dhenkanal District, Odisha on 12th February, 2025



FAP conducted by AMFU, Gosaigaon at Mankachar Village, South-Salmara Block, South Salmara Mancachar District, Assam on 21st February, 2025

VISITORS

Prof. Petteri Taalas, Director General, Finnish Meteorological Institute (Former Secretary General, WMO) visited MoES on 5th March, 2025 and had a meeting with Secretary, MoES, DGM, and other senior officers of IMD. Dr. **Petteri Taalas** also delivered a popular lecture on "Activities".



Prof. Petteri Taalas, Director General, Finnish Meteorological Institute (Former Secretary General, WMO) visited MoES and IMD

165 Students from VPMP Polytechnic College, Ahmedabad visited Met Centre Ahmedabad for industrial visit on 07-01-25 & 09-01-2025.



165 Students from VPMP Polytechnic College, Ahmedabad visited Met Centre Ahmedabad

200 Students of PDEU University (ECE Department) visited Met Centre Ahmedabad on 5th & 6th February, 2025.



200 Students of PDEU University (ECE Department) visited Met Centre Ahmedabad

Dr. Nave Hazarier and Shri Nagendra Singh from NEGRL visited MC Shillong and had a talk with Head MC Shillong on 07.02.2025.



Dr. Nave Hazarier and Shri Nagendra Singh from NEGRL visited MC Shillong

Students for Shyam Bhumi High School visited Regional Meteorological Centre Guwahati on 28th February, 2025.



Students for Shyam Bhumi High School visited Regional Meteorological Centre Guwahati

Hon'ble Minister, Ministry of Science & Technology and Ministry of Earth Sciences **Dr. Jitendra Singh** visited IMD on 17th March, 2025 to review the progress on implementation of Mission MAUSAM.

Science outreach program was conducted on 24th March, 2025, WMO Day celebration at CRS Pune, featuring an AWS and Radiation lab stalls. Students and professors visiting CRS Pune were provided with explanations and demonstrations.



Science outreach program was conducted on 24th March, 2025 WMO Day celebration at CRS Pune

12 students from IAHR institute visited Met Centre Lucknow on 24.03.2025 on the occasion of WMO day



Students from IAHR institute visited Met Centre Lucknow

80 Nos of Students along with 4 faculty members from Manav Rachna International Institute of Research and studies, Faridabad visited Sat. Met. Division for educational visit on 27th and 28th March, 2025.

MEDIA INTERACTION

With the approval of the Head, Climate Research & Services (CR&S), Shri Uday K. Shende, Scientist 'F', provided a comprehensive report on the evolution of meteorological instrumentation from the 1875 era up till, to an ABP Maza reporter on 14th January, 2025, in commemoration of 150 years of service to the nation by the India Meteorological Department (IMD).

MC Shillong organised Cultural Event at Mawsynram - the wettest place on Earth to commemorate the 150 years of Services to the nation by India Meteorological Department in collaboration with Dorbah Shnong of Mawsynram on 11th March, 2025 and Press Release was issued on 12th March, 2025 for the mentioned event.



Cultural Event organised at MC Shillong

WEATHER INFORMATION

India Meteorological Department (IMD) organised Press Conference on Outlook for Rainfall and Temperature for the month of April on 31st March. Dr. M. Mohapatra, DG IMD addressed the press conference. The press briefing is available at following link:

LRF Outlook for Second Half of SW Monsoon Season

The highlights of the Press Release are given below:

During the 2025 hot weather season [April to June (AMJ)], above-normal maximum temperatures are most likely over most parts of the country, except some parts of west peninsular India and isolated regions of east-central and east India where normal maximum temperatures are most likely.

During the season (AMJ), above-normal minimum temperatures are likely over most parts of the country except some isolated regions of extreme northwest India where normal minimum temperatures are likely.

For the month of April 2025, above-normal maximum temperatures are likely over most parts of the country except some parts of extreme south peninsular India and northwest India, where normal maximum temperatures are most likely.

Above-normal minimum temperatures are most likely over most parts of India, except some isolated pockets over northwest and northeast India where normal to below-normal minimum temperatures are likely during April 2025.

During April to June (AMJ) hot weather season, above-normal number of heatwave days are likely to occur over most parts of the north & east peninsula, central India, east India, and plains of northwest India.

During April 2025, above-normal number of heatwave days are likely over most parts of east and central India adjoining peninsular India.

The rainfall during April 2025, averaged over the country as a whole, is most likely to be normal (88-112% of LPA). Normal to above-normal rainfall is likely over many parts of northwest India, peninsular India, northeast India, and some parts of west central India. Below normal rainfall is likely over remaining parts of the country.

Rainfall Forecast for January to March, 2025 and Monthly Outlook for Rainfall and Temperature during January, 2025:**Rainfall**

During the upcoming winter season (January to March 2025) the rainfall over the North India consisting of seven meteorological subdivisions (East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana, Punjab, Himachal Pradesh, Jammu & Kashmir and Ladakh) is most likely to be below normal

[<86% of Long Period Average (LPA)]. Seasonal rainfall over the country as a whole during January to March season is most likely to be normal (88-112% of LPA). Normal to above normal seasonal rainfall is likely over most parts of the country except parts from Northwest India, some parts from east and many parts of northeast India, where below normal rainfall is likely. The LPA of rainfall over the country as a whole during the JFM season based on data from 1971-2020 is about 69.7 mm.

The probabilistic forecast for the spatial distribution of tercile rainfall categories (above normal, normal, and below normal) over the country for the JFM period is shown in Fig. 1. The forecast suggests that normal to above normal seasonal rainfall is likely over most parts of the country except parts from Northwest India, some parts from east and many parts of northeast India, where below normal rainfall is likely. Climatological rainfall probability is likely elsewhere.

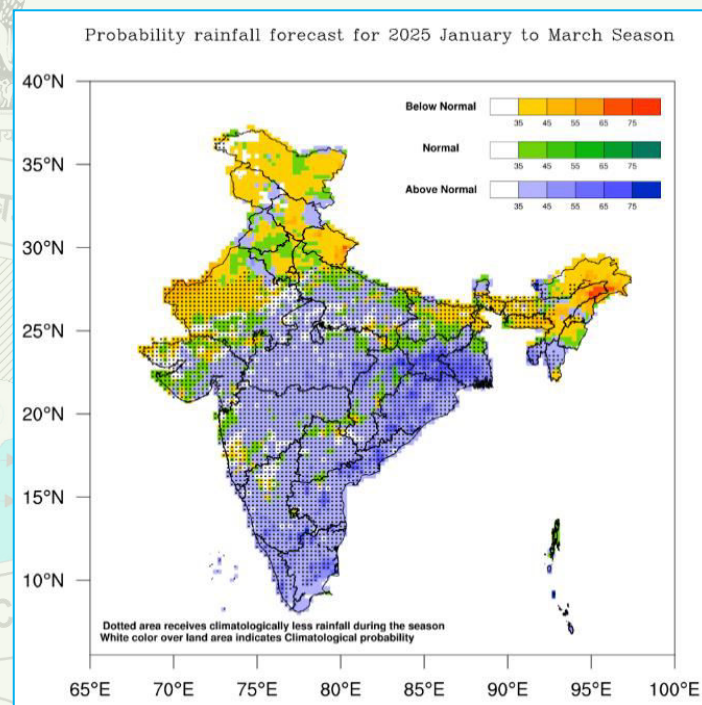


Fig. 1. Probability forecast of tercile categories* (below normal, normal and above normal) for the rainfall over India during January to March 2025

The 2025 January rainfall averaged over North India is most likely to be above normal (> 122 % of LPA). The LPA of rainfall over North India during January based on the data of 1971-2020 is about 49.0 mm. Monthly rainfall over the country as a whole during January 2025 is most likely to be above normal (>118 % of LPA). The LPA of rainfall over the country as a whole during January based on data from 1971-2020 is about 17.1 mm.

The probabilistic forecast for the spatial distribution of tercile rainfall categories (above normal, normal, and below normal) over the country for January 2025 is shown in Fig.2. The forecast suggests that above-normal rainfall is most likely over most parts of the country except some parts of northwest India and some pockets of the northeast and central India where normal to below normal rainfall is likely. Climatological probabilities are likely over the remaining areas of India.

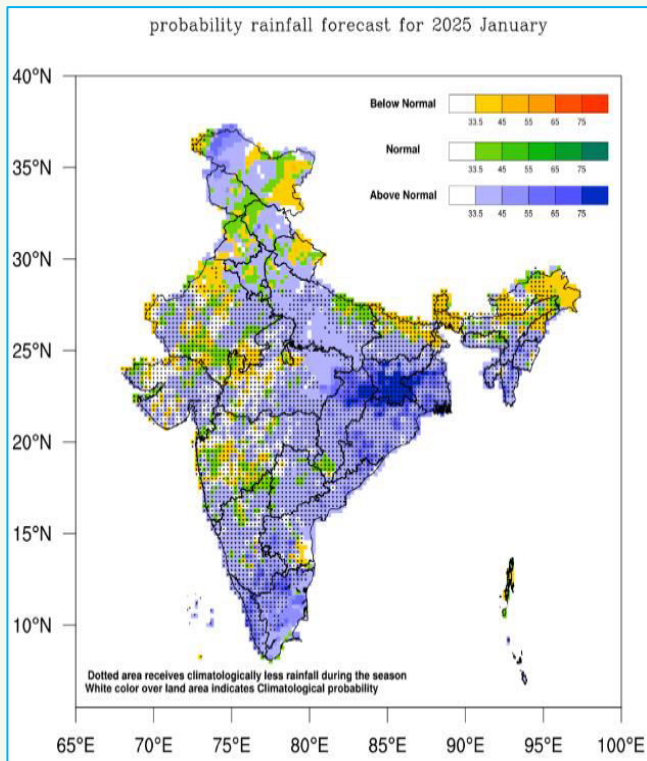


Fig. 2. Probability forecast of tercile categories* (below normal, normal and above normal) for the rainfall over India during January 2025

Temperature

Figs. 3(a&b) show forecast probabilities of the minimum and maximum temperatures respectively for January 2025. The probability forecast for the minimum temperatures indicates that during January 2025, monthly minimum temperatures are most likely to be above-normal over many parts of the country except some parts of east northwest, north central and parts of east India where normal to below normal minimum temperatures are likely.

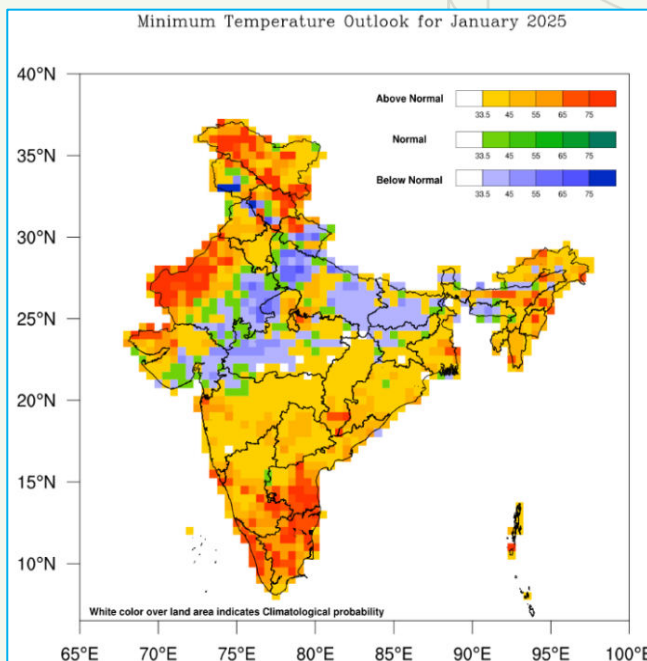


Fig. 3(a). Probabilities of the minimum for January 2025

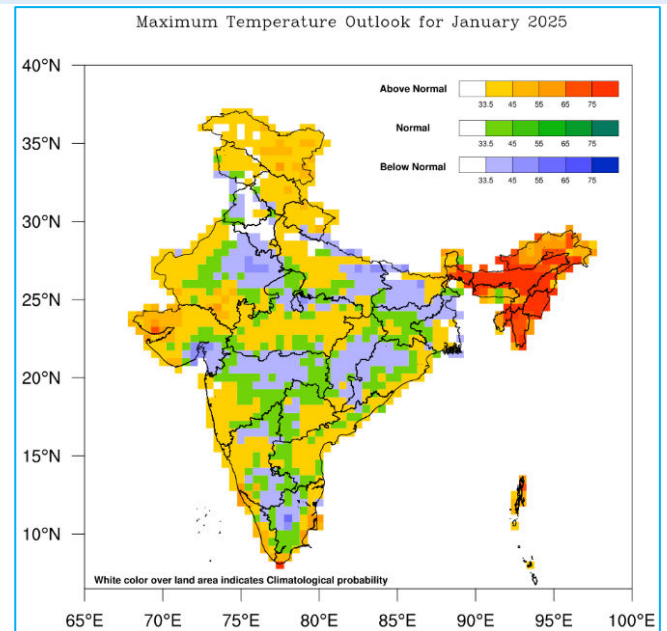


Fig. 3(b). Probability forecast of Maximum Temperature for January 2025

The monthly maximum temperature is likely to be above normal for most parts of the country except some parts of the northwest, central and adjoining east India and central parts of South Peninsula where it is likely to be normal to below normal. Climatological probabilities (indicated by white-shaded areas) are likely over the remaining areas of the country.

The anomaly forecast for the number of cold wave days in the country for the month of January 2025 is presented in Fig. 4. Above-normal cold wave days are expected over western and northern parts of central India during the month of January 2025.

Climatological probabilities (indicated by white-shaded areas) are predicted over the remaining areas of the country.

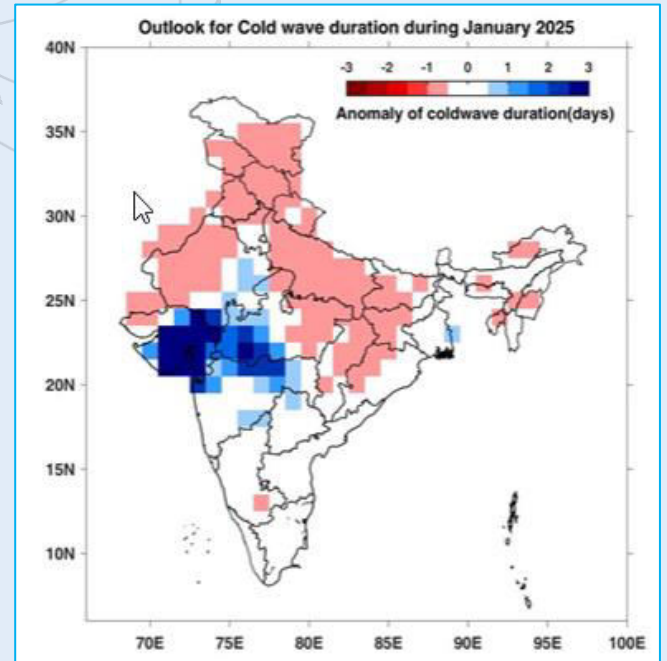


Fig. 4. Probability forecast of Cold Wave for January 2025

Monthly Outlook for the Rainfall and the Temperatures over India during February 2025

Rainfall

The rainfall averaged over North India is most likely to be below normal [$<78\%$ of Long Period Average (LPA)] during February, 2025. Monthly rainfall over the country as a whole during February 2025 is also most likely to be below normal ($<81\%$ of LPA). The LPA of rainfall over North India and the country as a whole during February based on data from 1971-2020 is 65.0 mm and 22.7 mm, respectively.

The spatial distribution of the probabilistic forecast of tercile categories (above normal, normal, and below normal) of monthly rainfall over the country for February 2025 is shown in Fig.5. The forecast suggests that c) Below-normal rainfall is likely over most parts of the country except some parts of West Central India and South Peninsular India and some regions of North West India where normal to above-normal rainfall is likely.

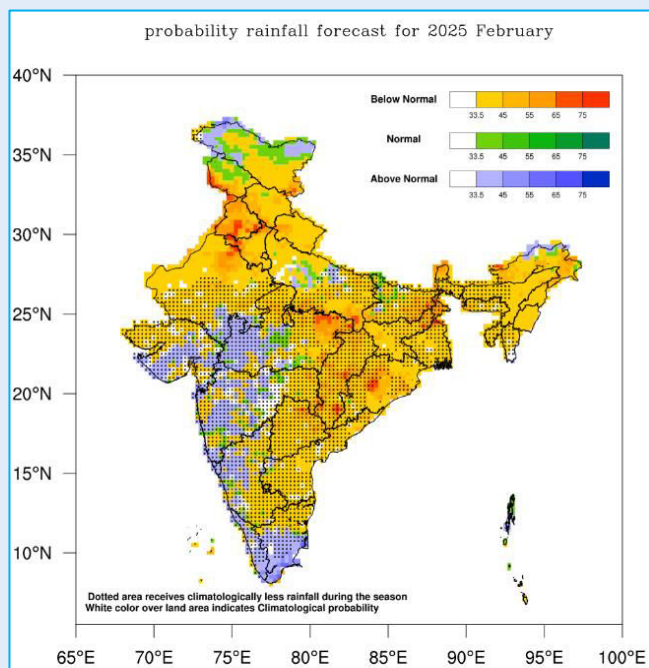


Fig. 5. Probability forecast of tercile categories* (below normal, normal and above normal) for the rainfall over India during February 2025

Temperature (February)

Figs. 6(a&b) show the forecast probabilities of the minimum and maximum temperatures respectively for February 2025. The probability forecast for the minimum temperatures indicates that during February 2025, are most likely to be above normal over most parts of the country except some regions of Northwest India and South Peninsular India where it is likely to be normal.

The probability forecast for maximum temperatures [Fig.6(b)] indicates that during February 2025, normal to above normal

over most parts of the country except some parts West Central India and Southern peninsular India, where below-normal maximum temperatures are likely.

The anomaly (deviation from normal) forecast for the number of cold wave days in the country for the month of February 2025 is presented in Fig. 7. The cold wave days over most parts of the country are likely to be within the normal range. However, below normal cold wave days are likely over some parts of Northwest India.

Climatological probabilities (indicated by white-shaded areas) are predicted over the remaining areas of the country.

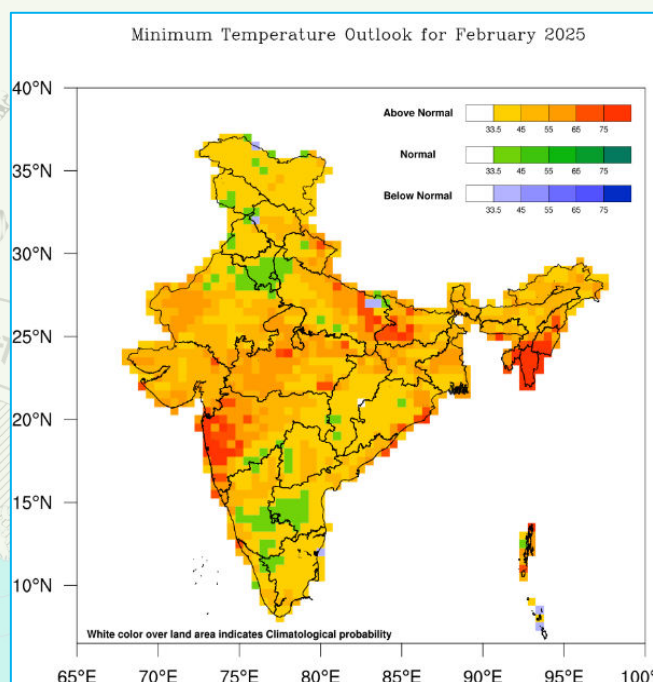


Fig. 6(a). Probability forecast of Minimum Temperature for February 2025

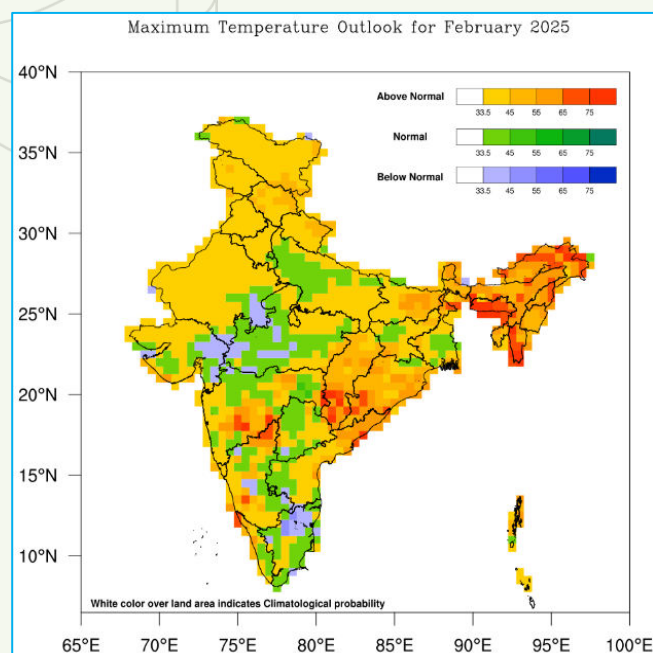


Fig. 6(b). Probability forecast of Maximum Temperature for February 2025

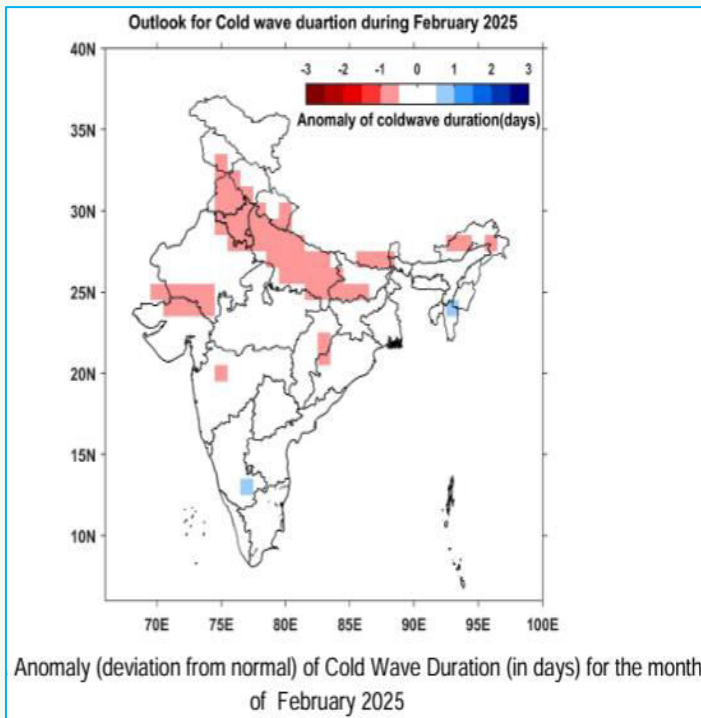


Fig. 7. Probability forecast of Cold Wave for February 2025 Outlook for the Seasonal Temperatures During the Hot Weather Season (March to May) and Monthly Rainfall and Temperatures During March, 2025

Rainfall

The rainfall during March 2025 averaged over the country is most likely to be normal (83-117% of LPA). The LPA of rainfall over the country during March based on data from 1971 to 2020 is about 29.9 mm.

The probabilistic forecast for the spatial distribution of tercile rainfall categories (above normal, normal, and below normal) over the country for March 2025 is shown in Fig. 8. The forecast suggests that above-normal rainfall is likely over most parts of Peninsular India and neighbouring regions of south of central India, while normal to below-normal rainfall is likely in the rest of the country.

Temperature

Figs. 9(a&b) show the probabilistic forecast of the maximum and minimum temperatures respectively for March to May (MAM) 2025 season. The probability forecast for maximum temperatures [Fig.9(a)] indicates that above-normal maximum temperatures are most likely over most parts of the country, except over southern parts of Peninsular India and isolated pockets of Northeast India where normal to below-normal maximum temperatures are most likely. The probability forecast for minimum temperatures [Fig. 9(b)] indicates that during the season (MAM), above-normal minimum temperatures are likely over most parts of the country except some isolated southernmost regions of Peninsular India where normal minimum temperatures are likely.

Figs. 10(a&b) show forecast probabilities of the maximum and minimum temperatures respectively for March 2025. During March 2025, monthly maximum temperatures are likely to be above normal over most parts of India, except over some southernmost parts of Peninsular India, where below normal maximum temperatures are likely [Fig. 10(a)].

During March 2025, above normal monthly minimum temperatures are likely over most parts of the country except some parts of Northwest India and South Peninsula, where normal minimum temperatures are most likely [Fig.10(b)].

Heatwave

The anomaly (deviation from normal) forecast for the number of heat wave days in the country for March to May 2025 is shown in Fig. 11(a). During March to May season 2025, above normal number of heat wave days are likely over most parts of the country except over Northeast India, extreme north India and south western and southern parts of Peninsular India.

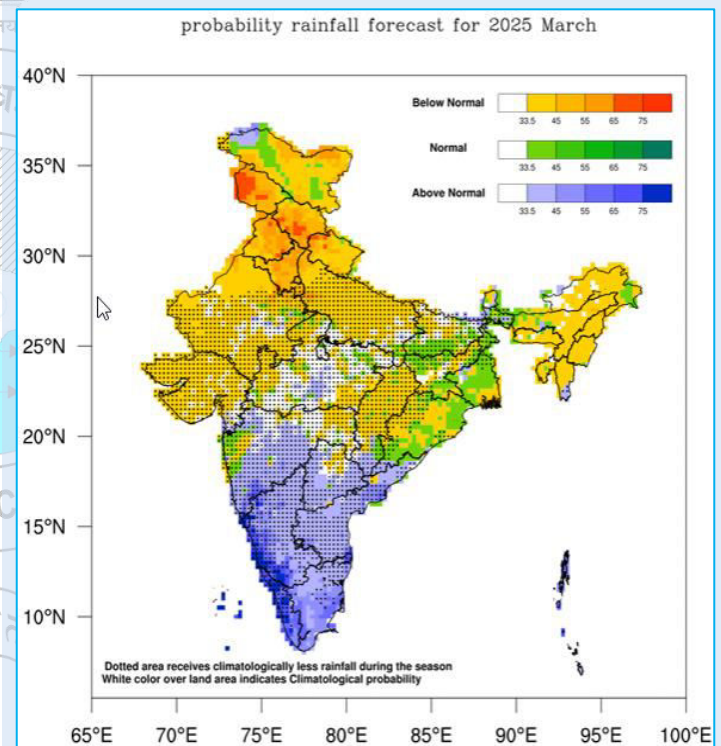


Fig. 8. Probability forecast of tercile categories* (below normal, normal and above normal) for the rainfall over India during March 2025

The anomaly forecast for the number of heat wave days in the country for March 2025 is shown in Fig. 11(b). During March, 2025, above-normal heat wave days are likely over most parts of central India and adjoining northern parts of South Peninsula, many areas of south Peninsular India and some areas of northwest and east India.

Climatological probabilities (indicated by white-shaded areas) are predicted over the remaining areas of the country.

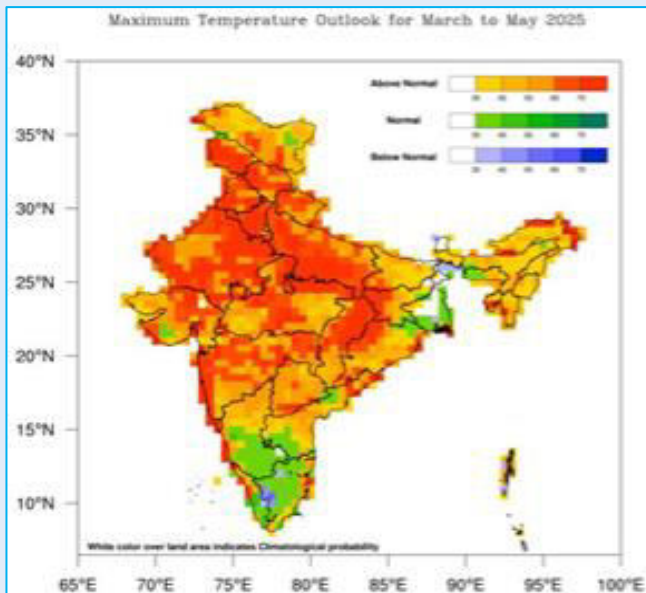


Fig.9(a). Probability forecast of Maximum Temperature for March to May 2025

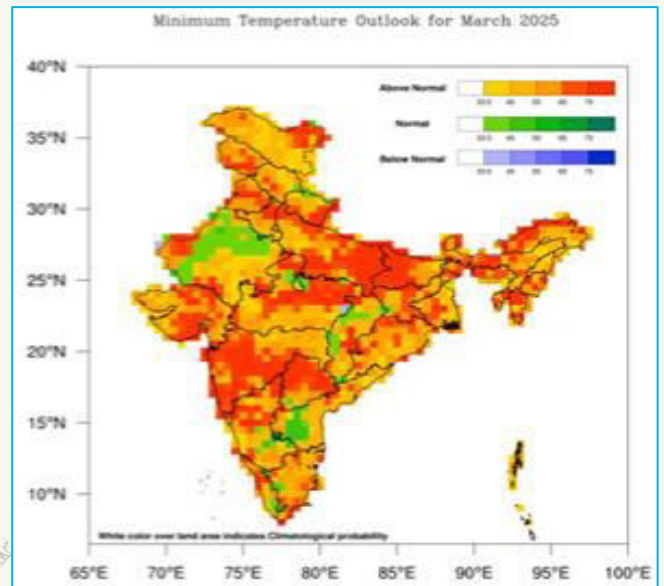


Fig.10(b). Probability forecast of Minimum Temperature for March 2025

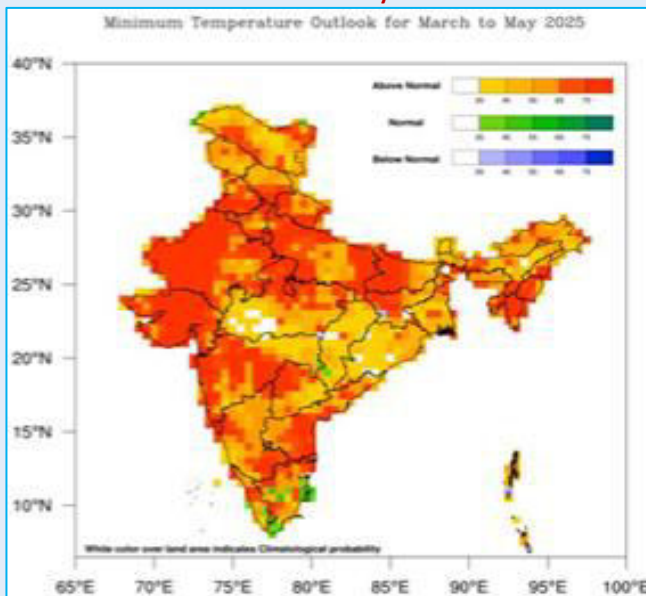


Fig.9(b). Probability forecast of Minimum Temperature for March to May 2025

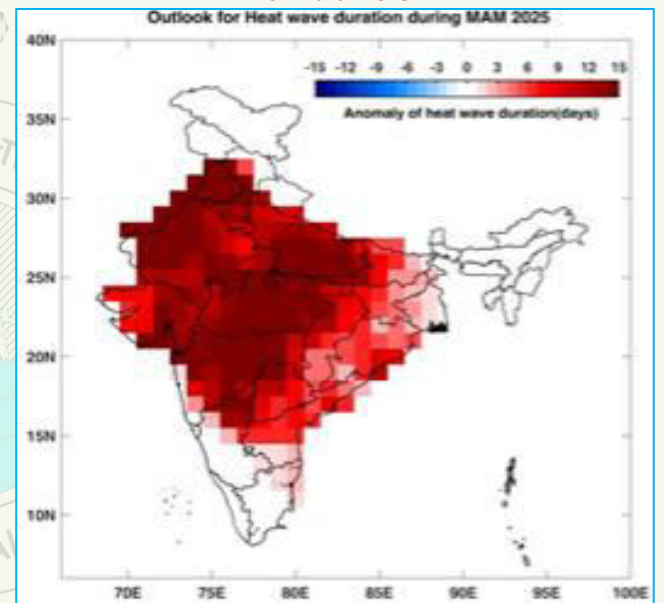


Fig.11(a). Probability forecast of heat wave events for the season March to May 2025

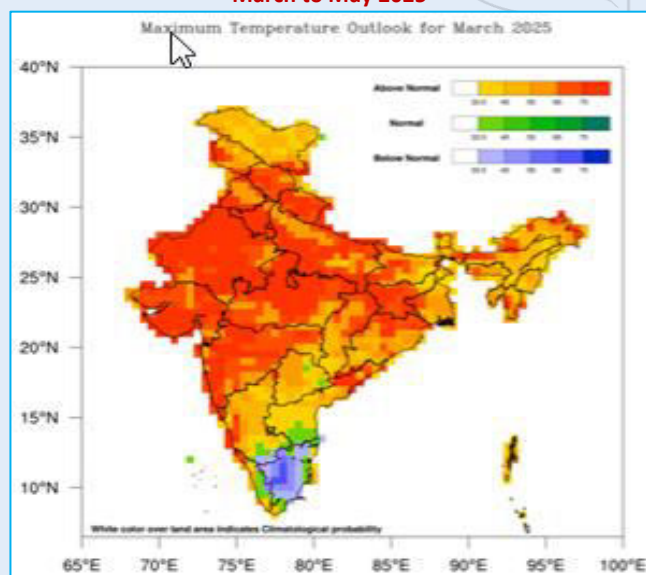


Fig. 10(a). Probability forecast of Maximum Temperature for March 2025

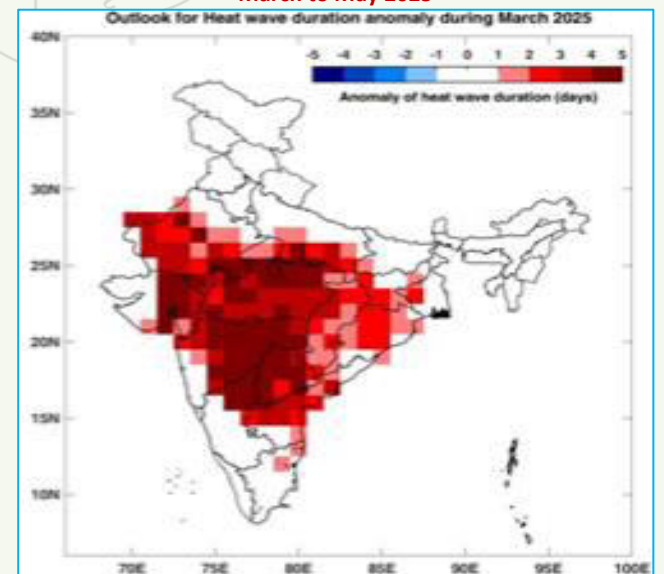


Fig.11(b). Probability forecast of heat wave events for the season March 2025



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भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

पृथ्वी विज्ञान मंत्रालय, भारत सरकार
Ministry of Earth Sciences, Govt. of India

