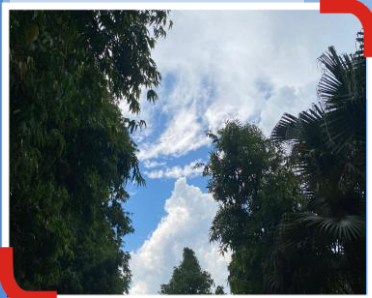




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## INDIA'S WEATHER AND DISASTER PREPAREDNESS AND ROLL OUT ROADMAP FOR ACCURATE FORECAST

Hon'ble Union Minister of State (Independent Charge) for Science & Technology, Earth Sciences and Minister State for PMO, Department of Atomic Energy, Department of Space, Personnel, Public Grievances & Pensions, **Dr. Jitendra Singh** chaired a high level meeting of India Meteorological Department and other key ministries to review India's weather and disaster preparedness and also to roll out roadmap for accurate forecast on 25<sup>th</sup> April, 2025. Hon'ble Minister called for expediting expansion of Doppler Weather Radar (DWR) coverage and modernisation of meteorological systems across the country.



Hon'ble Union Minister Dr. Jitendra Singh chaired a high level meeting of India Meteorological Department and other key ministries

## UNION MINISTER OF EARTH SCIENCES, DR. JITENDRA SINGH DEDICATED INDIGENOUSLY DEVELOPED "THE BHARAT FORECAST SYSTEM" TO THE NATION

Hon'ble Union Minister of Earth Sciences, **Dr. Jitendra Singh** dedicated one of the world's first indigenously developed high-resolution weather forecast systems "the Bharat Forecast System" to the Nation, enhancing the resolution from 12 km to 6 km, enabling more precise and location-specific forecasts on 26<sup>th</sup> May, 2025.



Hon'ble Union Minister of Earth Sciences, Dr. Jitendra Singh dedicated one of the world's first indigenously developed high-resolution weather forecast systems "the Bharat Forecast System" to the Nation

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## Significant Events

**United Nations Office for Disaster Risk Reduction (UNDRR) organized 8<sup>th</sup> Session of Global Platform for Disaster Risk Reduction (GP-DRR) and Sasakawa Award – 2025 Ceremony during 3 – 6 June, 2025.**

Sasakawa Award established in 1986 with the support of The Nippon Foundation, the United Nations Sasakawa Award is the most prestigious international recognition in the field of disaster risk reduction. **Dr. Mrutyunjay Mohapatra**, Director General, India Meteorological Department (DG IMD) received United Nations Sasakawa Award-2025 for Disaster Risk Reduction. The theme for 2025, "Connecting science to people: Democratizing access to innovation and technology for disaster-resilient communities," underscores the significance of Dr. Mohapatra's groundbreaking work in minimizing deaths due to any cyclone over the north Indian Ocean region, not only in India, but also in 13 WMO/ESCAP Panel member countries bordering the Bay of Bengal and the Arabian Sea.



**Mr. Kamal Kishore, Secretary General, Special Representative of the United Nations Risk Reduction, and Head of UNDRR presenting the Sasakawa Award to Dr. Mrutyunjay Mohapatra, Director General of Meteorology, India Meteorological Department**



**Dr. Mohapatra presenting Thanksgiving speech for the honour**



**Prof. Celeste Saulo, WMO Secretary General congratulating Dr. M. Mohapatra, DG IMD**

## 3<sup>rd</sup> Session of the 3<sup>rd</sup> Pole Climate Forum (TPCF-3) and meeting of the Third Pole Regional Climate Centre Network (TPRCC-Network) Task Team

The World Meteorological Organization (WMO) and the India Meteorological Department (IMD) jointly hosted the 3<sup>rd</sup> Session of the 3<sup>rd</sup> Pole Climate Forum (TPCF-3) and meeting of the 3<sup>rd</sup> Pole Regional Climate Centre Network (TPRCC-Network) Task Team, held at New Delhi during 3<sup>rd</sup> to 5<sup>th</sup> June, 2025.



**Dr. M. Ravichandran, Secretary, MoES, delivering Inaugural address in TPCF-3**



**Participant of the 3<sup>rd</sup> Pole Regional Climate Centre Network (TPRCC-Network) Task Team meeting, held at New Delhi**



## Release of publication on 150 years of IMD by AIDMI

India Meteorological Department (IMD) and the All-India Disaster Mitigation Institute (AIDMI) co-hosted a virtual roundtable event entitled “Celebrating 150 Years of IMD: Frontiers for Early Warning.” This event not only marked a century and a half of IMD’s pioneering service in weather forecasting and disaster risk reduction but also celebrated a moment of international pride. Dr. Mrutyunjay Mohapatra, Director General of IMD, as the recipient of the United Nations Sasakawa Award-2025 for Disaster Risk Reduction. From accurate cyclone warnings and heavy rainfall alerts to heatwave advisories, IMD has been a cornerstone of India’s climate resilience. The roundtable explored how India’s early warning systems—built on science, technology, and community outreach—can become more useful to its own people, its neighbours, and the world. A special issue of South Asia disasters, entitled “Celebrating 150 Years of IMD: Frontiers for Early Warning” was launched during the event and shared widely for learning and engagement.

**Virtual Roundtable on**  
**Celebrating 150 Years of IMD:**  
**Frontiers for Early Warning**

**Wednesday, June 11, 2025**  
**03:00 PM to 04:30 PM IST (09:30 UTC to 11:00 UTC)**  
**Registration Link: <https://tinyurl.com/mt6uf24p>**

**SPEAKERS**

- Dr. M. Mohapatra, DGM, India Meteorological Department (IMD), India
- Shri. Rajendra Singh, Member & Head, National Disaster Management Authority (NDMA), India
- Dr. R. R. Kelkar, Former Director General, India Meteorological Department (IMD), Pune, India
- Dr. L. S. Rathore, Ex-DGM India Meteorological Department (IMD), India
- Dr. U. C. Mohanty, Distinguished Professor, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India
- Shri. Mihir R. Bhatt, All India Disaster Mitigation Institute (AIDMI), India
- Dr. Akhili Srivastava, Scientist, India Meteorological Department (IMD), India

**MODERATOR**

Dr. Mrutyunjay Mohapatra, DGM, India Meteorological Department (IMD), India

This roundtable brings together DRR experts and local leaders to explore innovations in weather forecasting, disaster preparedness, and community resilience. Discover how early warnings—from cyclones to heatwaves—are saving lives and shaping a climate-resilient future. AIDMI will release the special issue of SouthAsianDisasters.net featuring “Celebrating 150 Years of IMD: Frontiers for Early Warning” in this commemorative conversation shaping the next generation of early warning thinking and action for all.

**“Celebrating 150 Years of IMD: Frontiers for Early Warning”**

## India Meteorological Department organized Pre-Cyclone Exercise Meeting on 04<sup>th</sup> April, 2025

India Meteorological Department organized Pre-Cyclone Exercise Meeting on 04<sup>th</sup> April, 2025 in hybrid mode under the Chairmanship of Dr. Mrutyunjay Mohapatra, DG IMD. Around 50 officers joined the meeting at Headquarters and 260 participants from different organizations including central level disaster management agencies, state level disaster management (DM) agencies, various Ministries & Departments, IMD’s sister organizations and research institutes joined online. The national level DM agencies included representatives from National Disaster

Management Authority (NDMA), National disaster Response Force (NDRF) (All field units), Integrated Control Room Emergency Response (ICR-ER) Ministry of Home Affairs (MHA), Indian Navy (IN), Indian Air Force (IAF), Indian Defense Services, Central Water Commission (CWC), Indian Coast Guard (ICG), Port Authority, Directorate General of Hydrocarbons (DGH), Directorate General of Light House & Light Ships, National Hydrographic Office, All India Radio, Door Darshan, Indian Railways (Punctuality Cell), Ministry of Petroleum & Natural Gas, Ministry of Rural Development, Ministry of Ports, Waterways & Shipping, Ministry of Road, Kandla Port, Transport & Highways, Ministry of Steel, and Ministry of Health & Family Welfare, Department of Atomic Energy etc.

During the meeting IMD informed the participants about the new initiatives primarily the plans of Govt. of India for augmentation of observational network under Mission Mausam, introduction of various products in GIS platform, introduction of multi model ensemble based forecast, customized location specific impact based forecast for various offshore & onshore industries, ports, district Headquarters, Indian Air Force locations, Indian Coast Guard Locations, city forecast for ports, ship route forecast, customized forecast for tourism spots.

DG IMD informed the stakeholders that IMD is committed to provide updated services for the safety of life and property. He also informed the participants that IMD is ready to start customized location specific forecasts for major industries, civilian airports, each district headquarter, each town/city along the coast, route forecast for surface transport and waterways. IMD is all poised to improve the Availability, Accessibility and Actionability of cyclone warning/advisories and solicited feedback from stakeholders for further improvement in services.



**Participants of Pre-cyclone exercise meeting on 04<sup>th</sup> April, 2025**



Participants of Pre-cyclone exercise meeting on 04<sup>th</sup> April, 2025

## 52<sup>nd</sup> Session of WMO/ESCAP Panel on Tropical Cyclones (PTC)

52<sup>nd</sup> Session of WMO/ESCAP Panel on Tropical Cyclones (PTC) was organised by Qatar Meteorological Department (online) during 28<sup>th</sup> April-1<sup>st</sup> May. IMD is hosting PTC Secretariat for the period 2024-27. From IMD, **Dr. M. Mohapatra**, DGM IMD and Secretary PTC, Dr. D R Pattanaik, Scientist-F & Head RSMC New Delhi, Dr. A K Das, Scientist-F & Head CWD, Dr. PLN Murty, Scientist-E & Head MSD, Mrs. Monica Sharma, Scientist-D, CWD and Dr. Amit Bhardwaj, Scientist-C, MSD & NWP participated in the meeting. Dr. M. Mohapatra made various deliberations wrt developments in Meteorology, Hydrology, Disaster Risk Reduction and Training & Research components in the PTC region.

Following technical documents were prepared and presented by IMD Scientists:

- Country Report of India by Dr. D R Pattanaik
- Report on Cyclones during 2024 by Dr. D R Pattanaik
- Annual Cyclone Review 2024 by Dr. D R Pattanaik
- Annual Operating Plan for 2025 by Dr. A K Das
- Coordinated Technical Plan (2024-27) by Dr. A K Das
- Action Taken Report on recommendation of PTC-50 and 51 by Mrs. Monica Sharma
- Tropical Cyclone Operation Plan (TCP-21) by Mrs. Monica Sharma
- Report on constitution & revival of Working Groups on Meteorology, Hydrology, DRR and Training & Research by Mrs. Monica Sharma
- PTC News Letter by Mrs. Monica Sharma
- Report of 52<sup>nd</sup> Session of PTC by Mrs. Monica Sharma

## 31<sup>st</sup> Session of South Asian Climate Outlook Forum (SASCOF-31) and Climate Services User Forum (CSUF) Pune, India 28-30 April 2025

IMD hosted a 31<sup>st</sup> session of South Asia Climate Outlook forum (SASCOF) and Climate Service User Forum (CSUF) in collaboration with WMO, RIMES, UKMO and UNESCAP conducted in Physical mode in Sheraton Grand Hotel, Pune India. Total 88 participants (77 off line and 11 online) and 107 participants (91 off line and 16 online) participated in the events respectively. All Class I Officers of IMD Pune participated in the meeting.

## India Meteorological Department organized Virtual Press Conference on "Outlook for Rainfall and Temperature for the month of July 2025" on 30<sup>th</sup> June 2025.

**Dr. M. Mohapatra**, DG IMD addressed the media virtually. The highlights of the Press Release are presented below:

- Rainfall over India** – Monthly average rainfall over the country as a whole in July 2025 is most likely to be above normal, exceeding 106% of the Long Period Average (LPA). Geographically, most parts of the country are likely to experience normal to above-normal rainfall. However, most parts of Northeast & East India, and many areas of extreme South Peninsular India and some areas of Northwest India, are likely to receive below-normal rainfall.
- Surface Air Temperature over India** – In July 2025, monthly average maximum temperatures are expected to remain normal to below normal in many regions, except northeast India and some areas of the northwest, east and southern peninsula, where they are likely to be above normal. Monthly minimum temperatures are expected to be normal to below normal over many parts of the country. However, above-normal minimum temperatures are likely over northeast India, many parts of southern peninsular India and some parts of northwest, east and central India.
- Sea Surface Temperature (SST)** - Neutral El Niño–Southern Oscillation (ENSO) conditions currently prevail over the equatorial Pacific Ocean. Forecasts from the latest Monsoon Mission Climate Forecast System (MMCFS) and other climate models suggest that these neutral conditions will likely to persist till the end of the monsoon season. Currently, neutral Indian Ocean Dipole (IOD) conditions are being



observed over the Indian Ocean. The model forecast indicates a possible transition to negative IOD conditions during the coming months.

## RMC Kolkata has taken a new initiative for organizing State Level Seasonal Climate Outlook Forum (SLSCOF) for all seasons

RMC Kolkata has taken a new initiative for organizing State Level Seasonal Climate Outlook Forum (SLSCOF) for all seasons, before the ensuing season. It will be basically a knowledge sharing and dialogue platform aimed at presenting the seasonal Climate outlook for West Bengal and fostering pro-active engagement among stakeholders from multiple sectors. The West Bengal State-Level South-West Monsoon Outlook for 2025 was held on 27.05.2025 at RMC Kolkata, Alipore. The event was chaired by Mr. Rajesh Kumar Sinha, Hon'ble Principal Secretary, Disaster Management & Civil Defence department, the Govt. of West Bengal GoWB. The forum featured insightful presentations by leading experts including Dr. D.S. Pai, Scientist 'G', IMD HQ; Dr. O.P. Sreejith, Scientist 'F' CRS IMD Pune; Dr. H.R. Biswas, Scientist 'F', RMC Kolkata; Dr. N. Chattopadhyay, Ex-DDGM IMD; Dr. G.C. Debnath, Senior Consultant, WBSDMA; other officials of RMC Kolkata and eminent delegates from different sectors i.e. I&WD, DVC, CESC, Agriculture, ARD Department, GSI. The day-long programme fostered meaningful dialogue among stakeholders under three sessions viz., Seasonal Forecast, Managing Disasters and Resources and Livelihood and Well-being. Dr. Somenath Dutta, Scientist 'G', presided over the event.



West Bengal State-Level South-West Monsoon Outlook for 2025 held on 27<sup>th</sup> May, 2025 at RMC Kolkata, Alipore

## Hindi Parliamentary Committee Inspection

MC Shillong Office attended the Hindi Parliamentary Committee Inspection at Shillong on 28.05.2025 and successfully passed the inspection.



Hindi Parliamentary Committee Inspection at Shillong on 28.05.2025



Inspection of the Second Sub-Committee of Parliamentary Official Language of Meteorological office, **Santacruz Airport Mumbai** was held on 22.04.2025 and was awarded certificate of satisfactory performance in official language by the parliamentary Committee.



Inspection of the Second Sub-Committee of Parliamentary Official Language of Meteorological office, Santacruz Airport Mumbai

## One-day workshop on “Monsoon-2025: Preparedness” was organized by USDMA, Govt of Uttarakhand and Meteorological Centre, Dehradun

One-day workshop on “Monsoon-2025: Preparedness” was organized by USDMA, Govt of Uttarakhand and Meteorological Centre, Dehradun at Hotel The Solitaire, Dehradun on 31.05.2025 for all stakeholders and line departments. The Hon’ble Chief Minister of Uttarakhand was the Chief Guest of the function. Sh. Bikram Singh, Scientist ‘F’, Sh. Rohit Thapliyal, Scientist ‘D’ and Sh. Bhaumik Indrawal, Met-A participated in the workshop. Sh. Bikram Singh, Scientist ‘F’ gave a presentation on “Southwest Monsoon forecast and preparedness for Uttarakhand State” and Sh. Rohit Thapliyal, Scientist ‘D’ gave a presentation on “Early Warning and Dissemination System”.



Inauguration on the occasion of Monsoon preparedness workshop 2025 by Hon’ble Chief Minister of Uttarakhand



Participant of Monsoon Preparedness workshop 2025 organized by USDMA, Govt of Uttarakhand and Meteorological Centre, Dehradun

## Human Resource Development Activities

### WORKSHOPS

**Shri Raja Acharya**, Met. ‘B’, participated in the 13<sup>th</sup> session of WMO, Ship Observations Team (SOT-13) jointly organized by the WMO, IOC and Ifremer, France during 1-4 April, 2025.

**Dr. M. Mohapatra**, DG IMD, attended the Inaugural Ceremony of the National Training Workshop on Weather Radar: Theory, Calibration, Maintenance, Data Analysis and Applications (NT-RADAR) (online) held during 7 – 10 April, 2025 at Meghdoot Auditorium at IITM.

**Dr. M. Mohapatra**, DG IMD, **Dr. D.S. Pai**, Scientist ‘G’, **Dr. R. K. Jenamani**, Scientist ‘G’ and **Dr. Kripan Ghosh**, Scientist ‘F’ participated in Brainstorming Meet on Desert Meteorology organized by M.C. Jaipur on 16<sup>th</sup> April, 2025.

**Dr. M. Mohapatra**, DG IMD participated in the Panel Discussion during the opening ceremony of RA II (Session-18) through VC during 22-25 April, 2025.

**Dr. Kripan Ghosh**, Scientist ‘F’ and **Dr. Ashutosh Kumar Misra**, Scientist ‘D’, attended “State-Level Kharif Season Planning Workshop” chaired by the Principal Secretary of Agriculture, Government of Maharashtra with senior officials from the Maharashtra Agriculture Department and other stakeholders at Vaikunth Mehta National Institute of Cooperative Management (VAMNICOM), Pune on 8<sup>th</sup> April, 2025. Dr. Kripan Ghosh also delivered a talk on “Agromet Advisory Services in India” during the workshop.

**RMC Nagpur** organized a Stakeholder Meeting (Workshop) on Climate Change and Distaste Management at Divisional

Commissioner Amravati, Maharashtra in collaboration with SDMA Maharashtra. The Workshop was led **Dr. Praveen Kumar**, Scientist 'C'. The representative from different stakeholders of districts from West Vidarbha, attended the session on 23<sup>rd</sup> April, 2025. Divisional Commissioner and Collector Amravati, Maharashtra co-participated in the Workshop.

**Dr. M. Mohapatra**, DG IMD participated as Chief Guest at the Inaugural Session of the two days' Workshop on "Recent Advances in Atmospheric and Planetary Sciences organized by Amity Institute of Applied Sciences on 24<sup>th</sup> April, 2025.

**Dr. Iyyappan M**, Scientist 'F', attended one day workshop on "Harnessing Space-Based Earth Observation and GIS Technologies for Disaster Risk Management" on 23<sup>rd</sup> May, 2025 at Vigyan Bhavan, New Delhi.

**Dr. A. K. Mitra**, Scientist 'F', was invited as a speaker for the third technical session on "Real-Time GIS and Early Warning Systems for Disaster Risk Reduction" at one day workshop on "Harnessing Space-Based Earth Observation and GIS Technologies for Disaster Risk Management" organized by National Disaster Management Authority (NDMA) on 23<sup>rd</sup> May, 2025 held at Vigyan Bhavan, New Delhi.

**Dr. Asha Latwal**, Scientist 'C' attended 3-day workshop on "Climate-informed Flood Prediction and Water Management" led by S2S-AccelNet Team in collaboration with IITM, Pune and IMD, New Delhi at IITM, Pune during 16 - 18 June, 2025.

**Shri Thangjalal Lhouvum**, Scientist 'D', MC Shillong along with **Ms. Aldarihun Nongkhaw**, S.A. attended the State Water Informatics Centre (SWIC) stakeholders workshop-cum-meeting at SWIC, Shillong on 19<sup>th</sup> June, 2025. The meeting discusses ways to collaborate among all weather and water related departments and sharing of meta data in a single state repository.

**Dr. Satyaban B Ratna**, Scientist 'E', participated (Online) in the SAHF Climate Services Workshop held in Bangkok, Thailand, during 24-26 June, 2025.

**Dr. D. R. Pattanaik**, Scientist 'F' attended the workshop on Mainstreaming Disaster Risk Reduction into Governance: Strategic Synergies with Agencies and participated in the Panel Discussion on "Future Technologies for DRR Moderator" on 25<sup>th</sup> June, 2025 at NIDM, Delhi.

## CONFERENCES

**Dr. Soumi Chakravorty**, Scientist 'D', gave an invited seminar (online) on "The Impact of Extratropical Atmospheric Variability on El Niño: Contrasting Thermodynamic versus Dynamic Coupling" on 7<sup>th</sup> April 2025 at the Navigation College, Dalian Maritime University, Liaoning Province, China.

**Dr. H. R. Biswas**, Scientist 'F', RMC Kolkata, attended HADR Seminar and delivered lecture on Cyclone at Panagarh Military Station on 9<sup>th</sup> April, 2025.

**Dr. M. Mohapatra**, DG IMD, **Dr. D.R. Pattanaik**, **Dr. A K Das**, **Dr. PLN Murty** and **Mrs. Monica Sharma** attended MEGHAYAN 2025 organized by Indian Navy at Naval Headquarters to commemorate WMO Day on 14<sup>th</sup> April, 2025.

**Dr. Kripan Ghosh**, Scientist 'F' attended One-day brainstorming meet on "Desert Meteorology" jointly organised by MC, Jaipur, IMD and Birla Institute of Scientific Research, Jaipur on at Birla Auditorium, Jaipur on 16<sup>th</sup> April, 2025.

**Shri Raja Acharya**, Met. 'B', attended Webinar on Monitoring and Warning for Tsunamis Generated by Volcanoes organized by the Inter-governmental Oceanographic Commission (UNESCO) on 16<sup>th</sup> April, 2025.

**Dr. A. K. Mitra**, Scientist 'F', attended the online webinar as Guest of Honor for Golden Jubilee Celebration of Aryabhatta Satellite organized by India Space Week, New Delhi on the occasion of Satellite Technology Day, 19<sup>th</sup> April, 2025. Dr. Mitra also received a letter of gratitude for taking a lecture in the said event held on 19<sup>th</sup> April, 2025.

**Shri Ashish Kumar**, Scientist 'D', attended a symposium entitled "Significance of Media Coverage in current climate challenges and mitigation" organized by Asian Development Research Institute (ADRI) on 25 April, 2025.

**Dr. M. Mohapatra**, DG IMD participated in the Inaugural ceremony of the 31<sup>st</sup> South Asian Climate Outlook Forum (SASCOF-31) and Climate Services User Forum (CSUF) at Pune through video conference on 29<sup>th</sup> April, 2025.

**Dr. A. K. Mitra**, Scientist 'F' attended 25<sup>th</sup> International TOVS Study Conference (ITSC-25) held during 8-14 May, 2025 at Resort Rio, Goa and presented research paper abstract "Analysis of diurnal nature of spatial variability of



Land Surface Temperature in Delhi NCR using Sentinel 3 and INSAT-3D/R satellite data" accepted for Poster Presentation.

**Dr. M. Mohapatra**, DG IMD delivered the Keynote Address during the inaugural ceremony of the 3-days training programme on Early Warning Systems at NIDM, Rohini on 14<sup>th</sup> May, 2025.



**Dr. M. Mohapatra, DG IMD delivered the Keynote Address**

**Dr. Satyaban B Ratna**, Scientist 'E', attended (Online) the Working Group on Asian-Australian Monsoon (WG AAM) meeting on 15<sup>th</sup> May, 2025.

**Dr. M. Mohapatra**, DG IMD participated in the Annual National Conference 2025 titled "Mitigating Heat Risks: Challenges & Opportunities for India" at India International Centre, New Delhi and delivered a special address on "Climate Risks" on 27<sup>th</sup> May, 2025. The event was organized by Climate Trends.

**Shri Raja Acharya**, Met. 'B', attended the online National seminar celebrating World Oceans Day 2025 organized by the Ocean Society of India, Delhi-NCR Chapter during 9-10<sup>th</sup> June 2025.

**Dr. M. Mohapatra**, DG IMD delivered a Keynote Address at a brainstorming Session on "Climate Change and Extreme Weather Events" to be held at Vivekananda International Foundation on 18<sup>th</sup> June, 2025.

**Dr. Satyaban B. Ratna**, Scientist 'E' as a member of the CLIVAR CDP, participated in (Online) the CDP 2<sup>nd</sup> Telecon 2025 on 26<sup>th</sup> June, 2025.

**Dr. M. Mohapatra**, DG IMD participated in Tech Verse and launch of radiometer along with Panel discussion on 27<sup>th</sup> June, 2025.

**Dr. M. Mohapatra**, Director General, IMD participated as Panelist during the panel discussion on "Creating R&D

ecosystem in India for "Viksit Bharat 2047" during in the global research event C-DAC Tech Verse 2025 on 27<sup>th</sup> June at the Manekshaw Centre, New Delhi organized by SAMEER, C-DAC, C-MET under MeITY. Dr. Mohapatra underscored the importance of integrating scientific research, technology development, and industrial collaboration to achieve sustainable progress in India's meteorological infrastructure, in alignment with the broader goals of Viksit Bharat 2047. Dr. Mohapatra also visited exhibition.

**Dr. M. Mohapatra**, DG IMD participated as an esteemed speaker in the 2<sup>nd</sup> Edition of "The India Climate Summit" organized by The Times Network on 27<sup>th</sup> June, 2025. The Theme of the event was "The Decisive Decade-Navigating the Tipping Point – recognizing that today's decisions will shape generations to come as we face Earth's Environmental tipping point".

**A short online session of South Asian Climate Outlook Forum** was held on 30.06.2025 to update 2025 Monsoon Seasonal Outlook. Shri K. C. Sai Krishnan, Scientist G, Dr. Kripan Ghosh, Sc-F, Dr. Sreejith O. P., Sc-F, Dr. Satyaban Rtna, Sc-E, Smt. Arti Bandgar, Scientist D, Dr. Sabeerali, Scientist C, Dr. Rohini P., Scientist C, Dr. Ashutosh Misra, Scientist D attended the session.

## MEETINGS

**Dr. M. Mohapatra**, DG IMD, attended 38<sup>th</sup> ICAR-CIFA Annual Day function as Chief Guest at Kausalyaganga, Bhubaneswar on 01<sup>st</sup> April, 2025.

**Shri Uday K. Shende**, Scientist 'F', participated in the online meeting of the Ship Observation Team (SOT-13) under the World Meteorological Organization (WMO), held on 1<sup>st</sup> April, 2025.

**Shri Uday K. Shende**, Scientist 'F', contributed as an External Expert Member in the Technical Evaluation Committee (TEC) for the procurement of Microwave Radiometer (MMR) for the Indian Institute of Tropical Meteorology (IITM) during an online meeting held on 6<sup>th</sup> April, 2025.

**Shri. Ashish Kumar**, Scientist 'D', attended a meeting held in hybrid mode on 4<sup>th</sup> April, 2025 at MoES to review the status of Mission Mausam projects status under the chairmanship of **Dr M. Ravichandran**, Secretary, MoES.

**Dr. M Mohapatra**, DGM-IMD, **Sh. Chetan Prakash Jain**,



JS&FA, MoES, **Dr. D S Pai**, Program Head (Mission Mausam), **Sh. Santosh Kumar**, DDG(Admin), **Sh. K D Meena**, Controller of Accounts, Project Directors and Deputy Project Directors of Mission Mausam, Scientists from CPU, B&P and Heads from RMCs/MCs/CRS, Pune participated in the meeting.

**Dr. M. Mohapatra**, DG IMD participated online in the Meeting of the next session of the Technical Coordination Committee (TCC) at WMO, Geneva from 7-11 April, 2025.

**Shri Surjay Lama**, SO-I and **Shri Atanu Sarkar**, Met-B, MC Gangtok, participated in a meeting with Secretary, Horticulture Department and Secretary, Agriculture Department, Govt of Sikkim on 16<sup>th</sup> April, 2025 for integration of IMD Weather Forecast and Agro Meteorological Services with Sikkim State Government IT Platforms and further requested him to provide Agro Advisory for preparation of AAS Bulletin from this office.

**Dr. M. Mohapatra**, DG IMD participated in Meeting of the National Executive Committee (NEC) to review the preparedness measures regarding ensuing Hot Weather Conditions at Conference Room No. 119, MHA, North Block, New Delhi on 22<sup>nd</sup> April, 2025.

**Dr. M. Mohapatra**, DG IMD, **Shri R. K. Jenamani**, Scientist-G and **Shri Rahul Saxena**, Scientist-G participated in the Meeting to review the implementation of directions given by Hon'ble Home Minister during Flood Preparedness Review Meetings held in the year 2020, 2021, 2022, 2023 and 2024 under the chairmanship of Union Home Secretary at MHA, North Block, New Delhi on 28<sup>th</sup> April, 2025.

**Dr. RajasreeVPM**, Scientist 'C', M.C Bhubaneswar attended a Meeting on "Climate Smart Agriculture Alliance of Odisha" at Krishi Bhawan, Bhubaneswar under the chairmanship of Hon'ble Deputy Chief Minister, on 29<sup>th</sup> April, 2025.

**Dr. R. K. Giri**, Scientist 'F', **Dr. A. K. Mitra**, Scientist 'F' and **Dr. Gargi Rakshit**, Scientist 'C', attended meeting with **Prof. Toru Terao** Faculty of Education, Kagawa University Japan to discuss on Real-time IPWV processing using RTKLIB for multiple GNSS stations on the IMD server and exploring the possibility of deriving IPWV from Trimble stations using RTKLIB at GNSS, Satmet Building, IMD on 30<sup>th</sup> April, 2025.

Meeting regarding preparation of draft **Andaman and Nicobar Disaster Management Plan-2025** held under the chairmanship of Chief Secretary, A&N Islands held on 2<sup>nd</sup> May, 2025 was attended by Shri S.P. Singh, Sc-D, MC Sri Vijaya Puram.

**Dr. O. P. Sreejith**, Scientist 'F', has attended eighth meeting (online) on 5<sup>th</sup> May, 2025, ninth meeting (online) on 26<sup>th</sup> May, 2025 and tenth meeting (online) on 29<sup>th</sup> May, 2025 from 03:00 pm to 04:00 pm under the chairmanship of Dr. Preveen Kumar, Scientist G, NCMRWF regarding preparing the RFP document titled "For Procurement of Supply, Installation, Integration & Maintenance of Computational Infrastructure and High Performance Computing (HPC) Solutions at India Meteorological Department – Turnkey Job".

**Dr. Kuldeep Srivastava**, Scientist 'F' attended meeting regarding Regional Session for National Focal Points on Radio Frequency Matters in the Asia-Pacific Region on 13<sup>th</sup> May, 2025 in online mode and made a presentation on IMD activities in this regard.

**Dr. R. K. Giri**, Scientist 'F', along with Hon'ble MoES (I/C) for Earth Sciences, PS to MoES and Secretary, MoES participated in 17<sup>th</sup> RIMES Council Meeting and 4<sup>th</sup> Ministerial Conference held in Colombo, Sri Lanka from 7-9 May, 2025.

Meeting to discuss "**climatic and weather conditions in Pune and surrounding area**" for review "Bio Diversity Park reservation and Hill Top Hill Slope zone" in PMC and PMRDA area under the chairmanship of Shri. Ramanath Jha, Former Collector and Deputy Director, Municipal Administration, Ahmednagar, Municipal Commissioner, Pune and Metropolitan Commissioner, MMRDA at CR&S, IMD, Pune on 13<sup>th</sup> May, 2025.

**Dr. Ashutosh Misra**, Scientist 'D', **Dr. Jaya Dhami Parihar**, Scientist 'D' and **Dr. Asha Latwal**, Scientist 'C', attended the online meeting on "Kharif Season 2025-Contingency Crop Planning" under the chairmanship of Commissioner (Agriculture) with senior officials from ICAR-CRIDA Hyderabad, Maharashtra State Government, State Agricultural Universities and ICAR institutes etc. on 14<sup>th</sup> May, 2025.

**Dr. Ashutosh Misra**, Scientist 'D' attended, "Pradhanmantri Fasal Bima Yojna (PMFBY) State level Crop

Insurance co-ordination Committee Meeting (SLCCCCI)" under the chairmanship of Chief Secretary (Agriculture) with senior officers from Maharashtra State Government, RBI, NABARD, insurance companies etc. through virtual mode on 15<sup>th</sup> May, 2025 and (ii) Online State Level Crop Insurance Coordination Committee Meeting on Pradhanmantri Fasal Bima Yojna (PMFBY) chaired by Chief Secretary, Government of Maharashtra on 17<sup>th</sup> June, 2025.

**A two-day Regional Level Coordination Meeting** of all heads of **MCs / DWR / MWO / FMOs** and different divisional heads under RMC Kolkata held during 15.05.2025-16.05.2025 at RMC Office Kolkata under Chairmanship of Dr. Somenath Dutta, Scientist 'G'. The meeting was held broadly in two sessions focusing on technical and operational matters on Day-1 (15.05.2025) and General administration and works matter on Day-2 (16.05.2025). Dr. H. R. Biswas, Scientist 'F' welcomed all participants in the meeting on behalf of Head, RMC Kolkata and highlighted about the meeting purpose and objectives in brief.



**Regional Level Coordination Meeting of all heads of MCs / DWR / MWO / FMOs and different divisional heads under RMC Kolkata**

**Dr. A. K. Mitra**, Scientist 'F' attended first and Second meeting of Joint Working Group (JWG) for the Space-Based Disaster Management Requirement of MHA at Tapovan, National Disaster Management Authority, New Delhi on 30<sup>th</sup> April, and 19<sup>th</sup> May, 2025.

**Dr. M. Mohapatra**, DG IMD, participated in the First Governing Board Meeting of Earth System Sciences Council (ESSC) at Arnav Hall, Prithvi Bhavan on 21<sup>st</sup> May, 2025. DGM is an Ex-Officio Member of this Council.

**Stat-level pre-kharif season review meeting** was attended by **Shri K. C. Sai Krishnan**, Scientist 'G', under the

Chairmanship of the Chief Minister of Maharashtra on 21<sup>st</sup> May, 2025 at Mantralaya, Mumbai.

**Dr. Ashutosh Misra**, Scientist 'D', **Dr. Jaya Dhami Parihar**, Scientist 'D' and **Dr. Asha Latwal**, Scientist 'C' attended the online meeting with various AMFUs and RMCs/MCs regarding "Quality and Timeliness of AAS Bulletins under GKMS" on 21-22 May, 2025.

**Smt. Arti Bandgar**, Scientist 'D', **Dr. Rohini P.**, Scientist 'C', **Mrs. Smitha Nair**, Met. 'B' and **Mr. Prasad Bhor**, Met. 'B' has attended the meeting with Pune Knowledge Cluster (PKC) officials on 27<sup>th</sup> May 2025 in CRS Pune.

The State Disaster Management Authority (SDMA) under the Department of Revenue and Disaster Management, Govt. of Chhattisgarh held a southwest monsoon 2025 preparedness meeting on 30.05.2025 constituted under the chairmanship of Additional Chief Secretary Forest and Climate Change, **Ms. Richa Sarma**. The meeting was attended by **Smt. Samanti Sarkar**, Scientist 'F' & **Dr. Gayatri Vani Kanchibhotla**, Scientist 'C', In-Charge State Weather Forecasting Services. Inputs of Long Range Forecast of SW Monsoon 2025 along with meteorological terms and services were briefed. Also the timely dissemination of CAPSACHET messages was discussed with focus on orange and red alerts.

**Shri. R. Pariong**, Met. 'B' and **Ms. Evakordor Jyrwa** Project Scientist-I attended the online meeting Strengthening Dissemination of Agromet Advisory Services under Gramin Krishi Mausam Sewa (GKMS) regarding collection of more Farmers data to be included in Agromet WhatsApp group on 2<sup>nd</sup> June, 2025.

**Dr. Manorama Mohanty**, Scientist 'F', attended Disaster Management Exercise (DMEx-2025) Meeting, held at OSDMA, Rajiv Bhavan, Bhubaneswar, to carry out Dummy Exercise for District Level (Table Top Exercise) and Block Level (Table Top Exercise) in connection with Cyclone/Associated Storm Surge/ Heavy Rainfall/ Landslide, on 6<sup>th</sup> June, 2025.

**Dr. Trisanu Banik**, Scientist 'D' attended a meeting as a member of Technical Evaluation Committee (TAC) under NLRMP Project with NDMA along with various other states representative of India for evaluating the PPR of individual



states under the Chairmanship of Shri Krishna S. Vatsa, Member, NDMA on 10<sup>th</sup> June, 2025.

**Dr. Kripan Ghosh**, Scientist 'F', **Dr. Jaya Dhami Parihar**, Scientist 'D' and **Dr. Asha Latwal**, Scientist 'C' attended virtual roundtable on "Celebrating 150 Years of IMD: Frontiers for Early Warning" jointly organised by IMD, New Delhi and the All India Disaster Mitigation Institute (AIDMI), Ahmedabad, Gujarat on 11<sup>th</sup> June, 2025.

**Dr. M Mohapatra**, DG IMD attended meeting with Mr. Stephen Hodgson regarding Assessing the legal and institutional framework for the provision of meteorological services in South Asia through video conferencing on 12<sup>th</sup> June, 2025.

**Dr. Akhil Srivastava**, Scientist 'D' participated in the event Community Climate Messengers focusing on Heat Waves jointly organised by IMD, Green peace India and different vendor association, hawkers associations, on 12<sup>th</sup> June 2025 at Vrishti Auditorium Mausam Bhawan, New Delhi.

**Dr. Sreejith O. P.** and **Dr. Rohini P.** participated in the S2S-AccelNetWorkshop: "Climate-Informed Flood Prediction and Water Management", hosted by the S2S AccelNet team in collaboration with the Indian Institute of Tropical Meteorology (IITM) and the India Meteorological Department (IMD). The workshop was held from June 16–18, 2025, at IITM, Pune.

**Mr. Upendra Shrivastava**, Met. 'B', MC Ranchi, participated in the meeting held in the conference hall of the new terminal building of Birsa Munda Airport, Ranchi under the chairmanship of Airport Director, Birsa Munda Airport, Ranchi to discuss the preparation of emergency drills on 16-19 June, 2025. The emergency drill was successfully conducted on 26.06.2025 in the wake of an aircraft accident on runway 13 of Birsa Munda Airport, Ranchi in which all the stakeholders of Birsa Munda Airport, Ranchi participated.

**Dr. Manorama Mohanty**, Scientist 'F', attended a high-level coordination committee meeting to share findings of IHCAP Study by iFOREST on Bhubaneswar Integrated Heating and Cooling Action Plan (IHCAP) organized under the Chairmanship of Chief Secretary, Odisha, at Lok Seva Bhawan, Bhubaneswar, on 18<sup>th</sup> June, 2025.

**Dr. Trisanu Banik**, Scientist 'D' attended a meeting with Uttar Pradesh Relief Commissioner, Government of Uttar Pradesh concerning the establishment of a Lightning Detection Network and Electric Field Monitor in the state on 19<sup>th</sup> June, 2025.

**Dr. Ram Kumar Giri**, Scientist 'F', attended the fifth meeting of the National Working Party 7B chaired by Sh. M R Raghvendra, Deputy Director, ISRO Telemetry Tracking & Command Network in virtual mode on 20<sup>th</sup> June, 2025.

**Shri. Sunny Chug**, Scientist 'D' and Shri I. Talukdar, Met. 'B', MWO Kolkata, attended the initial Preparatory Meeting for Full Scale Mock Exercise for Aircraft Accident conducted by AAI Kolkata on 20<sup>th</sup> June, 2025.

**Dr. Trisanu Banik**, Scientist 'D', attended a meeting regarding the integration of Lightning alert with auto dissemination mode in the Common Alert Protocol on 24<sup>th</sup> June, 2025 at NDMA HQ at Safdarjung Enclave, New Delhi.

**Dr. M. Mohapatra**, DG IMD along with experts from IMD attended meeting with experts from Bureau of Indian Standards including Dr. Prem Krishna, Chairperson, Cyclone Resistant Structures Sectional Committee; Dr. P. Hari Krishna, CSIR-Structural Engineering Research Centre, Chennai; Dr. S. Arunachalam, Jaypee University of Engineering and Technology, Guna; Dr. Manoj Kumar Rajak, Bureau of Indian Standards on 23<sup>rd</sup> June, 2025.

**Dr. O. P. Sreejith**, Scientist 'F', attended an Online meeting on 23 June 2025 organised by WMO for the Launch of the State of the Climate in Asia 2024 Report, and presented the report as a Lead Author. Dr. Satyaban B Ratna, Scientist 'E' also attended the meeting.

**Shri Uday K. Shende**, Scientist 'F', participated in the online meeting organized by the World Meteorological Organization (WMO) under the Climate Risk and Adaptation Partnership (Climate RAP) on 23<sup>rd</sup> June 2025. **Shri Uday K. Shende**, Scientist 'F', participated in the online meeting organized by the World Meteorological Organization (WMO) under the Climate Risk and Adaptation Partnership (Climate RAP) on 23<sup>rd</sup> June, 2025.

**Shri Thangjalal Lhouvum**, Scientist 'D', MC Shillong attended the First Half-yearly meeting of the Nagar

Rajbhasha Implementation Committee (Office-1) Shillong Meeting on 23<sup>rd</sup> June, 2025.

The Department of Agriculture Development, Farmers' Welfare and Biotechnology, Govt. of Chhattisgarh organized a meeting of the State Level Crop Insurance Coordination Committee (SLCCCI) on 23.06.2025 to review and discuss key aspects of the Pradhan Mantri Fasal Bima Yojana (PMFBY) for the Kharif and Rabi seasons 2024–25 and 2025–26. Additionally, under the Revised Weather-Based Crop Insurance Scheme (RWBCIS), discussions were held on the establishment of automated weather stations under the WINDS framework. The meeting was attended by **Smt. Samanti Sarkar**, Scientist 'F' & **Dr. Gayatri Vani Kanchibhotla**, Scientist 'C'.

**Dr. A.K. Mitra**, Scientist 'F', member, attended VLMG Eastern Group Meeting and presented IMD proposal to establish a new VLab Centre of Excellence in New Delhi on 24<sup>th</sup> June, 2025. **Shri Chinmay R Khadke**, Sc-D was also present during the meeting.

**Dr Sankar Nath**, Scientist 'F', **Mr. Prashant Bansal**, Scientist 'D', and **Dr. Trisanu Banik**, Scientist 'D' attended a CAP meeting in NDMA Bhawan, New Delhi related to direct dissemination of CAP alerts on 24<sup>th</sup> June, 2025.

**Dr. A. K. Mitra**, Scientist 'F', attended fourth meeting of Joint Working Group (JWG) and submitted TOR in r/o IMD for the Space-Based Disaster Management Requirement of MHA as a member organized by National Disaster Management Authority, New Delhi on 26<sup>th</sup> June, 2025.

**IMD team attended** Joint Systematic Observations Financing Facilities (SOFF) & Hydro Meteorological and Environment Industry (HMEI) session for SOFF peer advisors and implementing entities on 26<sup>th</sup> June 2025. **Shri K. C. Sai Krishnan**, **Ms. Ranju Madan**, **Shri K. N. Mohan**, **Dr. R. K. Giri** and **Shri Manish Ratnakar** attended the meeting.

## TRAININGS

**ICITC organized** 15<sup>th</sup> batch of the Advanced Training Course in Meteorological Instrumentation & Information Systems (MI&IS) for the period of 01.04.2025- 26.09.2025. This six-month program is certified by the World Meteorological Organization (WMO) and is recognized as equivalent to the BIP-M qualification.

**Dr. Kuldeep Srivastava**, Scientist 'F' has completed a training course on Annual Performance Appraisal Report (APAR) provided by the Institute of Secretariat Training and Management on 15<sup>th</sup> April, 2025 through Karmayogi portal.

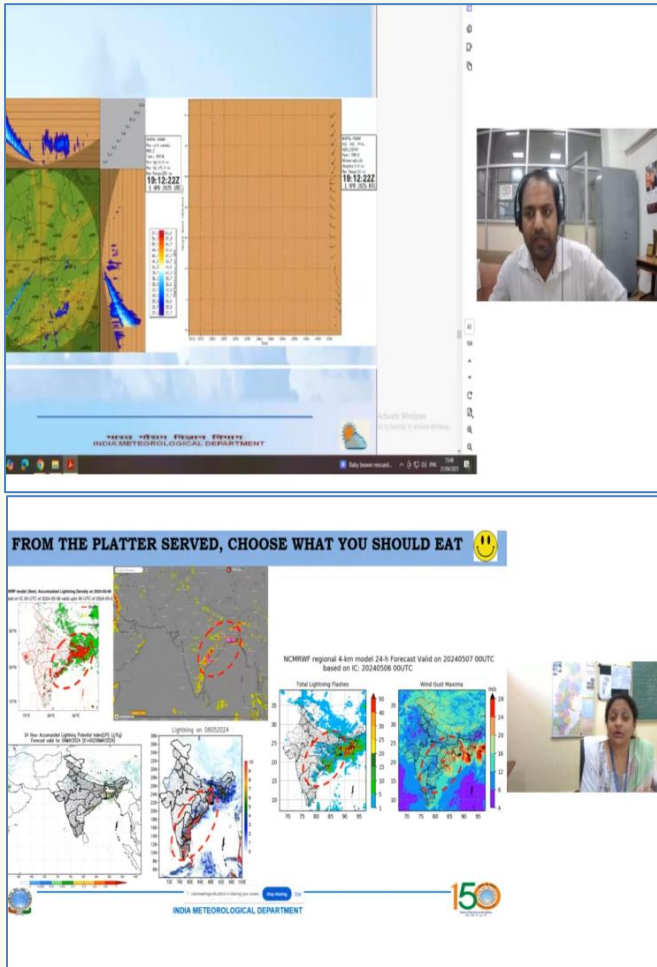
Office wise Online Training on DAK/Receipts of eOffice for all IMD officials is organised during 21 -29 April, 2025.

A five-day online short-term refresher course on the fundamentals of Python, organized by ICITC, during the period of 21-25 April, 2025. The training delivered to 179 IMD trainees, including two international participants.

## 2<sup>nd</sup> All-India Familiarization Training Course on Thunderstorm Monitoring for Aviation Safety from April 21–22, 2025.

The Aerodrome Meteorological Office (AMO), Nagpur, in collaboration with the IMS Chapters of Nagpur, Bhopal, and Raipur, successfully organized the 2<sup>nd</sup> All-India Familiarization Training Course on Thunderstorm Monitoring for Aviation Safety from April 21-22, 2025, through an online platform. This specialized training programme aimed to enhance the operational capabilities of aviation meteorologists by equipping them with advanced skills and knowledge essential for monitoring, forecasting, and managing the risks associated with thunderstorms—one of the most critical weather hazards affecting flight operations, air traffic management and airport safety. The training was led by **Dr. Rizwan Ahmed**, Scientist 'D', AMO Nagpur, and **Dr. R. Balasubramanian**, Scientist 'F', RMC Nagpur. The sessions witnessed enthusiastic participation from aviation professionals across various Aerodrome Meteorological Offices and Aviation Meteorological Centres. The course covered a wide range of topics, including real-time monitoring tools, early warning dissemination, and operational strategies to ensure aviation safety during severe convective weather events. The participants received comprehensive exposure to thunderstorm climatology, forecasting techniques, nowcasting methods, and the use of advanced warning systems utilizing satellite and radar data. The training initiative reinforced IMD's commitment to capacity building and operational excellence in aviation meteorology, aligning with international standards and best practices.





Office (AMO) Nagpur, DBAI Airport, Nagpur organized Familiarization course thunderstorm monitoring for the aviation safety, April 21-22 2025 for all airports.

**Shri Uday K. Shende**, Scientist 'F', attended an online training session organized by UAID, focusing on the "RADIOSONDE Sites under Mission Monsoon" project within the jurisdiction of RMC Mumbai on 25<sup>th</sup> April, 2025.

A "Refresher Training Programme" for SAGARMITRAS' under the state plan scheme for the year 2025-2026 at BWTC Campus Paradeep organized by Principal Brackish Water Training Centre (BWTC), was attended by Shri R. K. Mohapatra, Met-B, on 02.05.2025, 17.05.2025, and by Shri S. Mallick, Met-B on 01.05.2025 (at FTI Balugaon) 06.05.2025 and 14.05.2025, and by Shri Sapan Kumar Das, SO-I on 20.05.2025.

**Four-weeks summer placement course has been organized by Agrimet Division, IMD, Pune** during 5 - 30 May, 2025. B.Tech (Agril. Engineering) students from various universities of Maharashtra has participated in the

said course. Scientists of the division delivered lectures on following topics during the course: 'Introduction to Agricultural Meteorology', 'Crop weather relationship', 'Application of Weather forecasting to Agriculture' and 'Basics of Crop weather modelling' - by **Dr. Ashutosh Kumar Misra**, Scientist 'D'. 'Weather Hazards and Agriculture' and 'Operational Activities of Agricultural Meteorology Division' - by **Dr. Jaya Dhami Parihar**, Scientist 'D'. 'Agromet Advisory services', 'Evaporation and Evapotranspiration' and 'Basics of Remote Sensing and its applications in Agriculture' - by **Dr. Asha Latwal**, Scientist 'C'.

**Shri Uday K. Shende**, Scientist 'F', attended an online training programme organized by IITM, addressing the procurement process for Automatic Weather Stations (AWS) under their Urban Meteorology Project on 14<sup>th</sup> May, 2025.

**Dr. Manorama Mohanty**, Scientist 'F', was invited by Composite Hospital, GC CRPF, Bhubaneswar Campus for conducting a session on "Lightening Safety" for First Aid Course Trainees and delivered a Short Talk, on 19<sup>th</sup> June, 2025.

A five-day online short-term refresher course on **the Airport Met Instruments**, organized by ICITC during the period of 23-27 June, 2025. The training delivered to 211 IMD trainees, including seven (07) international participants.

**Dr. O. P. Sreejith** Scientist 'F' attended a training workshop S2S Accelnet workshop, jointly conducted by IITM, IMD and North Carolina State University, USA at IITM from June 16-18 for seasonal and sub-seasonal forecast application for hydrology and agriculture sector and gave presentation of "Seasonal Forecast Activities of IMD".

**Training courses** viz. Advanced Meteorological Training Course (AMTC), Forecasters' Training Course (FTC), Integrated Met Training Course (IMTC), Direct Recruited Scientists Training Course (DRSTC), Modular Training Course (MTC) are imparted to IMD officials and also to Officers from other departments on regular basis under Capacity Building.

**7 Officials from MC Shillong Office** attended the 4 months Hindi Prabodh Course and concluded on 22<sup>nd</sup> May, 2025.

## LECTURES/ TALK/ WEBINAR

**Dr. Somenath Dutta**, Scientist 'G' & Head, RMC Kolkata, delivered a lecture on 'Use of Balloons in Meteorology' at Indian Centre for Space Physics, Kolkata, on 2<sup>nd</sup> April, 2025.

**Dr. Praveen Kumar**, Scientist 'C' RMC Nagpur delivered a talk on Weather Forecast and Weather Warning Services of RMC Nagpur during the one Day workshop at Niyojan Bhawan, Collectorate office Wardha On 3<sup>rd</sup> April, 2025



Dr. Praveen Kumar, Scientist 'C' RMC Nagpur during talk

**Dr. Manorama Mohanty**, Scientist 'F', visited Gopabandhu Academy of Administration (GAA) and delivered a lecture on "Impact Based Forecasting and Warning Dissemination" to OAS Probationers (Dr-2022 batch), on 4<sup>th</sup> April, 2025.

**Dr. Soumi Chakravorty**, Scientist 'D', gave an invited lecture series (online) on "General Circulation of the Ocean and Atmosphere and Recent Climate Extremes" from 7-10 April, 2025 at the Navigation College, Dalian Maritime University, Liaoning Province, China.

**Dr. Sreejith. O. P.** Scientist 'F' delivered a lecture on "Long Range forecasting of ISMR: Present modalities & challenges" for trainees of Advanced Training for Met Officers (ATMOS) at Air Force Academy, Hyderabad (offline) on 16<sup>th</sup> April, 2025.

**Dr. G. P. Singh**, Met. 'A' delivered a lecture to participants of the Familiarization Course on thunderstorm monitoring to enhance Aviation safety, at RMC Nagpur on 22<sup>nd</sup> April, 2025.

**Sh. Bikram Singh**, Scientist 'F', was invited by Uttarakhand State Council For Science and Technology (UCOST),

Department of IT, Suraj and Science Technology, Govt. of Uttarakhand to deliver a talk on Earth Day at Vigyan Dham, Dehradun on 22.04.2025. Sh. Bikram Singh, Head/Scientist- F participated in the said program on 22.04.2025 and delivered a talk on "Weather and Climate with reference to Dehradun".

**Pre-Climate Outlook Forum (Pre-COF)** hands-on training workshop in association with 31st South Asian Climate Outlook Forum (SASCOF-31) was organized during 24-26th April 2025 in Sheraton Grand Hotel, Pune. 16 participants (13 off line and 3 online) and 5 resource persons participated the workshop.

**Ms. Tanu Sharma**, SRF, attended the EGU2025 in Austria, Vienna, from 27<sup>th</sup> April to 2<sup>nd</sup> May 2025 & made a poster presentation (EGU25-651, x5.123) on "Influence of Tropical Ocean Basins on the Interannual Variability of Indian Summer Monsoon Rainfall during three recent epochs". By Tanu Sharma, Satyaban B. Ratna, Ingo Ritzcher, D. S. Pai (2025). at EGU25 Conference, under the session CL2.2

**Dr. Satyaban B Ratna**, Scientist 'E', attended the SASCOF31 and CSUF and delivered a talk on "Strengthening Hydrometeorological Services in South Asia: Role of Climate Applications and User Interface" in Pune during 28-30 April. 2025.

**Dr. Satyaban B Ratna**, Scientist 'E', delivered a lecture titled "IMD Products for Flood Forecasting: Tools, Applications, and Demonstration" at the National Water Academy (NWA), Pune, on 2<sup>nd</sup> May, 2025.

**Dr. H.R. Biswas**, Scientist 'F', RMC Kolkata, attended and delivered lecture in Eastern Region Committee for disaster management in power sector held at ERPC Kolkata, on 9<sup>th</sup> May, 2025.

**Dr. Rizwan Ahmed**, Scientist 'D' delivered an Invited talk on weather services by IMD in a lecture organised by the Vigyan Bharati- NAGPUR on 10<sup>th</sup> May, 2025 at 3 pm at Dada Ramchand Bakhru Sindhu Mahavidyalay, Panchpaoli, Nagpur.

**Dr. Rizwan Ahmed**, Scientist 'D' delivered a session on "Satellite Applications in Aviation Services" highlighted the operational use of INSAT satellite data in real-time weather monitoring and forecasting, emphasizing its critical role in aviation safety and meteorological services



for engineering college interns from Nagpur, Maharashtra, during 13–15 May, 2025.

**Dr. Ashutosh Kumar Misra**, Scientist 'D', participated in Joint Agresco-2025 and delivered a lecture on "Southwest monsoon 2024 and activities under GKMS in Maharashtra" at Vasantrao Naik Marathwada Krishi Vidyapeeth (VNMKV), Parbhani, Maharashtra on 29<sup>th</sup> May, 2025.

**Dr. Arulalan T**, Scientist 'C', delivered a talk titled "Forecasting and Early Warning: Making Climate Intelligence Work for All" in the online webinar titled "Policy, Forecasting, and Early Action: Strengthening Heat wave Governance and Preparedness" on 13<sup>th</sup> June, 2025, organized by NIDM and Sphere India Academy.

"As part of the 12-day Training Programme on Disaster Management for the 102 Battalion Rapid Action Force held at Veermata Jijabai Bhosale Botanical Garden & Zoo, 2nd Floor, Penguin Building, Dr. Babasaheb Ambedkar Road, Byculla (East), Mumbai – 400 027, **Smt. Shubhangi A. Bhute**, Scientist 'F', delivered a lecture on 'Climate Change' on 16<sup>th</sup> June, 2025.



**Smt. Shubhangi A. Bhute**, Scientist 'F', delivered a lecture on 'Climate Change' on 16<sup>th</sup> June, 2025."

**Smt Arti Bandgar**, Scientist 'D' has presented an invited talk on Climate Change, Sustainability and Conservation for International Yoga Day Celebration Program Series held at Regional Ayurvedic Research Institute (RARI) - Central Council for Research in Ayurvedic Sciences (CCRAS) on 17<sup>th</sup> June, 2025 at Pune.

**Dr. Manorama Mohanty**, Scientist 'F', was invited by Veterinary Officers' Training Institute, Bhubaneswar to join as resource person for taking session during programme for Veterinary Officers on "Disaster Management in collaboration with OSDMA" and delivered a Short Talk On 21<sup>st</sup> June, 2025.

**Shri Uday K. Shende**, Scientist 'F', delivered an online lecture on the Ceilometer instrument as part of a Short-Term Refresher Course hosted by the ICI Training Centre, New Delhi On 25<sup>th</sup> June, 2025.

**Shri Uday K. Shende**, Scientist 'F', gave a presentation on "Modernization of Workshop Facilities at IMD Pune" to the Director General of Meteorology (DGM) on 25<sup>th</sup> June 2025.

**Smt Arti Bandgar**, Scientist 'D' delivered an invited talk on Effects of Climate Change in Local Marathi Language at Pune Mahila Mandal, Rasta Peth Branch of All India Women's Conference held on 26<sup>th</sup> June, 2025 at Agarkar girls High School, Pune.

**Dr. Sabeerali C. T.**, Scientist 'C' delivered the RCC presentation titled 'ENSO and IOD: Current Status and Forecast' during the SASCOF-31 Update Meeting held online on 30<sup>th</sup> June, 2025.

## AWARENESS PROGRAM

**MC Shillong Office Celebrated Earth Day** by organising various activities such as Drawing competition, Quiz competition, Human Chain event and Tree Plantation event on the 22nd April 2025 with the Theme: "This is OUR POWER, OUR PLANET - Renewable Energy" with enthusiastic participation from Lady Keane College, Bormanik College, and Ram Krishna Mission School, Myllem.



**Earth Day Celebrated at MC Shillong Office**



**A science outreach program and practical demonstration of meteorological instruments** were conducted for 15 naval officers from the School of Naval Oceanology and Meteorology, Kochi On 30<sup>th</sup> May, 2025.



15 naval officers from the School of Naval Oceanology and Meteorology, Kochi

**RMC Nagpur conducted Farmer Awareness Program** at three different Villages of Wardha District of Maharashtra, on 5<sup>th</sup> June 2025. During this awareness program, about 150 farmers took participate and they were briefed by **Dr. Praveen Kumar**, Scientist 'C', about IMD services related to Agro-advisory and weather forecast and Warning services of IMD. The status of Monsoon and Long Range Forecast also elaborated for their application to Agriculture practices.



Dr. Praveen Kumar, Scientist 'C', RMC Nagpur at Farmer Awareness Program of Wardha District of Maharashtra, on 05<sup>th</sup> June, 2025

**International Yoga Day** was celebrated at MC Bhubaneswar on 21<sup>st</sup> June, 2025.



International Yoga Day was celebrated at MC Bhubaneswar

On the occasion of International Yoga Day on 21<sup>st</sup> June 2025, a yoga session was conducted at 8:00 AM on the premises of the Meteorological Centre, Raipur. The session saw enthusiastic participation from the staff of MC Raipur. It began with a brief overview of the benefits of yoga for physical and mental well-being. Participants engaged in a series of yoga practices, including warm-up exercises, followed by Surya Namaskar, Vrikshasana, Bhujangasana, Anulom-Vilom, Kapalbhati, Titli Asana, and Vajrasana. Each asana was aimed at improving posture, flexibility, concentration, digestion, and respiratory health. The session concluded with a group interaction, where participants shared feedback and expressed interest in continuing yoga regularly.



Yoga session was conducted on the premises of the MC, Raipur



World Yoga day was celebrated at MC Dehradun on 21<sup>st</sup> June, 2025. The program started with a brief lecture by Sh. Bikram Singh, Scientist 'F' on this year's theme "Yoga for One Earth, One Health". On this occasion, various warm up exercises, sitting and standing asanas and pranayama were performed by the officers and staff present. The officers and staff also discussed the importance of yoga and pledged to include it in their daily lives. The program concluded with the national anthem.



Yoga Day at MC Dehradun

## ACHIEVEMENTS / APPRECIATIONS / AWARDS RECEIVED

### AWARDS

WMO has Presented Certificate Of Appreciation For Services to the World Meteorological Organization and particularly to the WMO Regional Association II (Asia) to Dr. Kuldeep Srivastava, Scientist 'F' in recognition of his valuable contribution during the intersessional period of the Seventeenth Session of Regional Association II (Ra II-17).

## Research & Publications

Twenty three (23) research articles have been published in Mausam (Vol. 76, No.2), April, 2025 issue.

### Research papers published in Mausam

**Kant, Shashi; Singh, Surendra Pratap; Ahmed, Rizwan,** 2025, "Meteorological conditions associated with the unprecedented weather activity over eastern parts of Uttar Pradesh, India on 16 & 17 September, 2021", *MAUSAM*, 76, 2, 485-498, DOI10.54302/Mausam.v76i2.6555.

**Lakshmi, S.; Nivethaa, E. A. K.; Palanivelu, K.; Ramachandran, A.,** 2025, "Influence of sunspot activity and EL Niño southern oscillation on northeast monsoon rainfall in the coastal districts of Tamil Nadu", *MAUSAM*, 76, 2, 577-590, DOI10.54302/mausam.v76i2.6596.

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## Other Publications

**O. P. Sreejith and C. T. Sabeerali** (contributory author) contributed to the WMO publication State of the Climate in Asia 2024 (WMO-No. 1373, ISBN: 978-92-63-11373-7), published in 2025

## Infrastructure Development & Installations

In June 2025, final-year B.Tech (E&TC) students from Bharati Vidyapeeth Deemed University College of Engineering, Pune, completed a project on Low-Cost Automatic Weather Station (AWS) under the guidance of B. Sudarsan Patro, Scientist 'D'.



B.Tech (E&TC) students from Bharati Vidyapeeth Deemed University College of Engineering, Pune,

Shri Thangchunglien Haokip, SA and Shri Niewkor Warbah, SA went for tour to 10 Stations for preventive maintenance/new data logger/rectification of ARG station at Laban, NEHU, Secretariat Hills, Mairang, Mawkyrwat, Laitkroh, Sohra, Mawryngkneng, Amlarem, Byrnihat w.e.f. 26.04.2025 to 06.05.2025 in the interest of public interest.



ARG LABAN



ARG NEHU



ARG SECRETARIAT HILLS



ARG MAIRANG



ARG MAWKRYWAT



ARG LAITKROH



ARG MAWRYNGKNENG



ARG AMLAREM



ARG BYRNIHAT

ARG Stations

DGM has approved the proposed establishment of a new Meteorological Office at Tura proposed by MC Shillong as follow up action from the State Level IMD Stakeholders Workshop at Shillong in commemoration of IMD 150 years celebration.

Secretary, MoES has approved the proposed establishment Manual Climatological Observatory and Educational Centre at Mawsynram; World's Wettest Place as per MC Shillong proposal.

New FTP Circuit was created between RTH New Delhi & M.W.O. Kolkata to set up routing of the data to ARC Charbhatia.

## SERVICES

### Air Quality Forecast/Summary of Delhi.

The air quality in Delhi remained in the Moderate category for 12 days in April, 2025. However, there were no good, satisfactory, very poor and severe categories days in terms of air pollutants observed concentration in Delhi during this period. In addition air quality of Delhi was in 18 days in poor category during this month. The monthly concentrations of PM2.5 and PM10 were observed to be 74  $\mu\text{g}/\text{m}^3$  and 216  $\mu\text{g}/\text{m}^3$ , respectively, in Apr 2025. The normal concentrations of PM2.5 and PM10 during April month were 78.0  $\mu\text{g}/\text{m}^3$  and 212.0  $\mu\text{g}/\text{m}^3$  respectively based on 2018-2024 data.

Air Quality forecast for Delhi was issued all 30 days during April 2025 from EMRC division, IMD Delhi and the performance of IMD air quality forecast in terms of correct forecast skill is 93.0%, 63.0%, 57.0 % and 37.0 % in day 0, day 1, day 2 and day 3 lead time.

"IMD ATITHI - An Online Guest House Booking System" facility has been extended to the IMD retired employee's w.e.f. 01.04.2025.

Facility to save details of project staff is given to recruitment cell of IMD-Ceass User and is implemented on METNET w.e.f. 08.04.2025.

IMD BAMS - 2 Budget Heads of **MISSION MAUSAM** added on 17.04.2025 in consultation with the DGM (B&P) Section.

As requested by GS (Works) REJECT button is created in ACTION ON APPLICATION tab in IMD-eAWAS package and pagination is also implemented w.e.f 21.04.2025.



Implementation of Statewise GH and RH in METNET w.e.f. 08-05-2025. Option to update Recommending, Approving, Link, Reporting and Reviewing officer in Login By Sections from 16.05.25 and auto forwarding of leave to Recommending & Approving officers w.e.f. 21.05.2025.

**Dashboard – Leave:** Recommending, Approving, Link, Apar: Reporting and Reviewing officer w.e.f. 23.05.2025.

Restricted access to IMD eOffice through WebVPN has been implemented in coordination with the MoES-NIC Coordinator and NDC Bhubaneswar on 15-05-2025.

Information of Quarters of CRS Pune have been received and subsequently facility to apply/manage occupancy of Online Quarter have been made available in IMD e-AWAS on METNET w.e.f. 01.06.2025.

Facility to update transfer on LIEN/DEPUTATION has been developed in METNET dated 25-06-2025.

Launched - IMD e-AWAS Dashboard on 26.06.2025 to show IMD Quarters details.

**Dr. Somenath Dutta**, Scientist 'G', conducted an Open Viva Voce Examination of Ph.D. thesis entitled "Investigation of turbulent characteristics within surface layer during thunderstorm" in the Department of Mathematics, Jadavpur University, Kolkata, on 29.04.2025.

**On 18-26 June 2025, Ensuring the safety of the public, pilgrims, and a smooth yatra is a key objective of IMD.** To support this, IMD provides critical weather services across the nation, including to the Indian Army, Navy, Air Force, NDMA, and SDMAs, even in challenging and remote terrains. As part of this commitment, automatic weather stations have been installed along the Shri Amarnath Ji Yatra 2025 route by AWS Lab and MC Srinagar.



Automatic weather stations have been installed along the Shri Amarnath Ji Yatra 2025 route by AWS Lab and MC Srinagar.

## MEDIA INTERACTION

### Updated Long-Range Forecast for Southwest Monsoon Rainfall 2025

(i) **IMD organized Press Conference** on the updated Long-Range Forecast for Southwest Monsoon Rainfall 2025 at Mahika Hall, MoES on 27<sup>th</sup> May 2025. The highlights of the Press Release are presented below:

- Quantitatively, the southwest monsoon seasonal rainfall over the country as a whole is likely to be 106% of the Long Period Average (LPA) with a model error of  $\pm 4\%$ , indicating that above normal rainfall is most likely over the country as a whole during the monsoon season (June to September), 2025.
- The southwest monsoon seasonal (June to September, 2025) rainfall is most likely to be above normal over Central India and South Peninsular India ( $>106\%$  of LPA), normal over Northwest India (92-108% of LPA) and below normal over Northeast India (106% of LPA).
- The southwest monsoon seasonal rainfall over the Monsoon Core Zone (MCZ) consisting of most of the rainfed agriculture areas in the country is most likely to be above normal ( $>106\%$  of LPA)
- During June to September 2025, normal to above normal rainfall is very likely over most parts of the country except some areas of Northwest and East India and many areas of Northeast India where below normal rainfall is very likely.
- The average rainfall for the country as a whole during June 2025 is most likely to be above normal ( $>108\%$  of the Long Period Average (LPA)).
- During June 2025, Normal to above normal monthly rainfall is very likely over most parts of the country, except some southern parts of peninsular India and parts of Northwest and Northeast India, where below normal rainfall is likely.
- In June 2025, normal to below normal monthly maximum temperatures are likely over most parts of the country, except many regions of the Northwest India and Northeast India, where above normal temperatures are very likely. Above-normal monthly minimum temperatures are likely across most parts of the country, except some parts of Central India and adjoining south Peninsula where, where normal to below-normal minimum temperatures are very likely.



- h) Currently, neutral El Nino-Southern Oscillation (ENSO) conditions are prevailing over the equatorial Pacific region. The latest Monsoon Mission Climate Forecast System (MMCFS) as well as other climate model forecasts indicate that the neutral ENSO conditions are likely to continue during the monsoon season.
- i) At present, neutral Indian Ocean Dipole (IOD) conditions are observed over the Indian Ocean. The latest MMCFS forecast indicates that weak negative IOD conditions are likely to develop during the southwest monsoon season.

Detailed Press Release is available at:

[https://internal.imd.gov.in/press\\_release/20250527\\_pr\\_4008.pdf](https://internal.imd.gov.in/press_release/20250527_pr_4008.pdf)

**Shri K. G. Kanade**, Met. 'B' participated in the program "Krushidarshan" on DD Sahyadri (Marathi Channel) on 02.06.2025 and delivered talk on "Monsoon 2025 and Kharif Planning". The program was broadcasted on 20.06.2025 at 06:00 to 06:30 pm on DD Sahyadri.

An interview with **Mrs. Shubhangi Bhute**, Head of the Regional Meteorological Centre, was featured in the 'Dilkhulas' programme- in Marathi regional language, produced by the Directorate General of Information and Public Relations." On 19<sup>th</sup> June 2025.



An interview with Mrs. Shubhangi Bhute in the 'Dilkhulas' programme- in Marathi regional language

## VISITORS

On May 14, 2025, science outreach activities were conducted during the visit of B.Tech (Agricultural Engineering) students and faculty, who visited the AWS and Radiation Lab at Pashan to attend a lecture and practical demonstration of Met. Instrumentations.



B.Tech (Agricultural Engineering) students and faculty, who visited the AWS and Radiation Lab at Pashan

Around 30 students along with 4 Faculty members from North Eastern Hill University (NEHU), Department of Geology visited MC Shillong on 17<sup>th</sup> May, 2025.



Student of North Eastern Hill University

MC Shillong Celebrated World Environment Day 2025 with the theme "Beat Plastic Pollution" with a student visit from St. Edmund's College, Dept of Geography, Shillong on 5<sup>th</sup> June, 2025.



Student of St. Edmund's College, Dept of Geography



Third Semester medical students Sri Balaji Institute of Medical Sciences visited the **Meteorological Centre, Raipur** on April 28 and June 11, 2025. During their visit, they were given an overview of the Centre's operations and were introduced to a range of meteorological instruments used in weather observations and data collection. The students also gained valuable insights into various weather phenomena and were explained by the officers about the methodologies and processes involved in state-level weather forecasting.

Almost 60 students and faculty members of **Vidyasagar University, Midnapore** visited FMO Jalpaiguri on 02.06.2025. They had been demonstrated the usefulness and functioning of all Surface Meteorological instruments. **Dr. Divesh Choudhary**, Scientist 'D', and **Sri Sukumar Roy**, Met-B, RMC Kolkata, briefed about the GKMS activities, Agriculture related Apps. and Agromet instruments to the 80 students of DAESI, SAMETI, Ramkrishna Mission, Narendrapur, on 26.06.2025.

Under IMD outreach program students and faculties from Himalayan Institute of Medical Sciences, Dehradun, Manava Bharati India International School, Dehradun, Army Public School Miran Sahib, Jammu & Kashmir & Chattisgarh Degree college, Raipur were allowed to visit Meteorological Centre Dehradun premises on 28.04.25, 23.04.25, 21.05.25 & 13.06.25 respectively. Sh. Bhaumik Indrawal, Met-A, Sh. Ankit Sharma, Met-A & Sh. Anurag Negi, SA showed the students the activities of weather forecasting section and Sh. Akash Chandra, Met-A & Sh. Ashish Mehar, SA briefed them about RS/RW observation & surface met. Observatory.



Students from various schools and colleges visiting MC Dehradun

## WEATHER INFORMATION

### SIGNIFICANT WEATHER

#### April 2025

**Low pressure:** Low pressure area moved from central parts of south Bay of Bengal to southwest Bay of Bengal during 7-10 April 2025. There were Four Western Disturbances (WDs) observed over Indian region during 1-6, 8-14, 17-24 and 24-30 April, which caused severe Thunderstorm activity over northwest, central, peninsular, east and northeast India. Associated squally/gusty winds and Hailstorm, Lightning occurred over many parts of the country with Bihar, Uttar Pradesh, Odisha, Chhattisgarh, Madhya Pradesh, Western Himalayan Region, North Interior Karnataka, North Andhra Pradesh being worst affected.

#### Average Temperature during April 2025

All India average temperature during April-2025 was 29.16 °C above normal by 0.86 °C and second highest since 1901. The normal temperature 28.29 °C. Over the country during April, the average maximum temperature was 8<sup>th</sup> highest since 1901. The average minimum temperature was 9<sup>th</sup> highest since 1901. The mean temperature was 7<sup>th</sup> highest since 1901.

The highest maximum temperature of 46.8 °C had been recorded at Barmer (W. Rajasthan) on 30<sup>th</sup> April, 2025 and the lowest minimum temperature of 09.8 °C had been recorded at Adampur (Punjab) on 1<sup>st</sup> April, 2025 over the plains of the country during the month.

#### Heat wave:

The major Spell of Heat wave during the month was mainly observed over Western India during 3-10 April mainly covering Gujarat and Rajasthan, Haryana and HP followed by shorter spell over NWI and Gujarat during 17-19, 28-30 April and then over Eastern India and Vidarbha, East Madhya Pradesh during 22-25 April. Monthly total of Heat to severe Heat Wave days for the month of the April: 72 Met-subdivision days. Sub division wise heat wave days are shown in the fig.1.

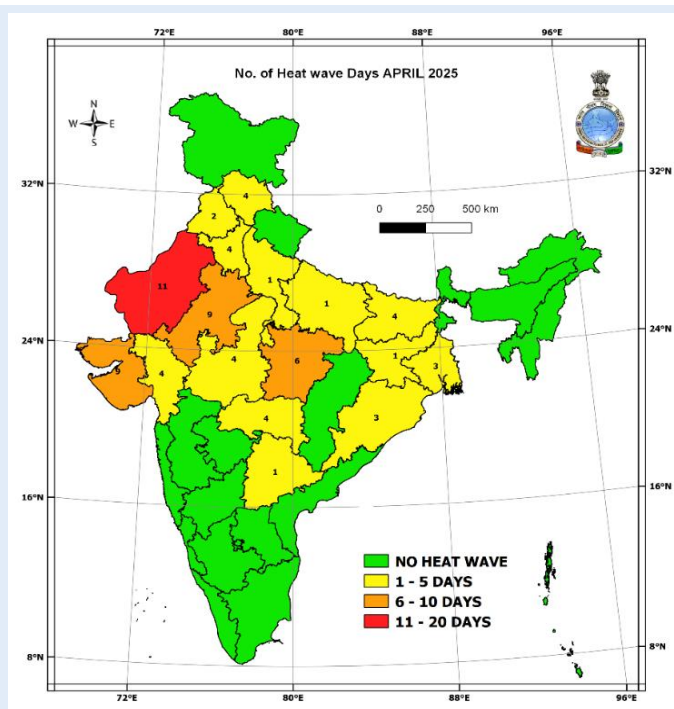


Fig. 1: Observed heat wave days during April 2025

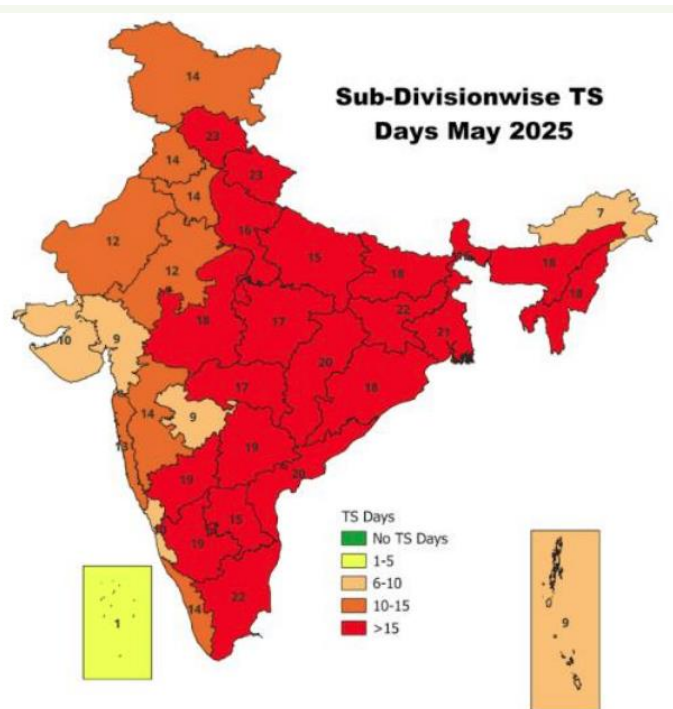


Fig. 2: Number of days of Thunderstorms over India at meteorological sub-divisional scale.

## Chief Synoptic weather features associated severe weather observed during May 2025

### Western Disturbances:

There were seven Western Disturbances (WDs) observed over Indian region during 1-3, 3-9, 8-15, 9-11, 17-22, 25-27 and 28-31 May. Out of these 7 WDs, all were active (except one during 9-11 May), which caused frequent occurrences of rain and thunderstorm activities accompanied with gusty winds and hail storms across Western Himalayan region, plains of Northwest and central India. Also, four of these WDs were formed at in-situ mainly observed over Pakistan and adjoining Jammu and Kashmiri and stay for longer period. Movement of these WDs across north and central India at regular intervals during the month was the main reason of higher rainfall and thunderstorm activities over these areas and low day 8 maximum temperatures and very less heat waves in the months.

### Thunderstorms and Hailstorms:

In the month of May, most parts of India experienced thunderstorm accompanied with gusty winds activities in regular intervals. It was 16-23 days of Thunderstorms observed in southeast Peninsular India, eastern and parts of northeast India and parts of western Himalayan region (Fig.2).

Hail storms were also observed during these events and it was 6-9 days over parts of western Himalayan region (Fig.3).

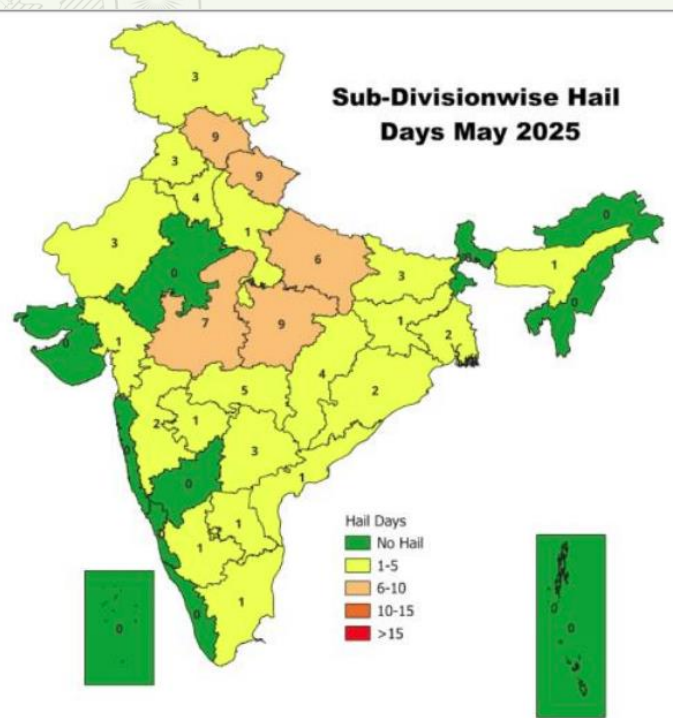


Fig. 3: Number of days of Hailstorms over India at meteorological sub-divisional scale.

**Heat wave:** West Rajasthan observed 11-20 number of heat wave days and East Rajasthan and Jammu, Kashmir & Ladakh observed 4-6 number of heat wave days (Fig.4).



## Characteristics of Temperatures for the month of May 2025

The average maximum, average minimum and mean temperature for the country as a whole during May 2025 were 35.08 °C, 24.07 °C and 29.57 °C respectively, against the normal of 36.60 °C, 24.17 °C and 30.38 °C based on data of 1991-2020. Thus, the average maximum, average minimum and mean temperature were below normal with departure from normal of -1.52 °C, -0.10 °C and -0.81 °C respectively for the country as a whole.

## Summary of Seasonal climate outlook for South Asia using April 1c (May – August 2025)

The probability forecast for precipitation for May – June – July (MJJ) and June – July – August (JJA) seasons indicates that enhanced probability of above normal precipitation is likely over most parts of north along the plains of Himalayas, most parts of southern Peninsula of India, south central, east, northeast, southeast of South Asia and enhanced probability of below normal precipitation is likely over north west, extreme north and north central part of South Asia. (Fig. 6). Temperature probability forecast for MJJ and JJA seasons indicate that enhanced probability of above normal temperatures is likely over most parts of South Asia except over extreme north, south peninsular region and southeast of South Asia where enhanced probability of below normal temperature is likely (Fig. 7).

### MMCFs Rainfall % Probability Forecast: AprilC2025

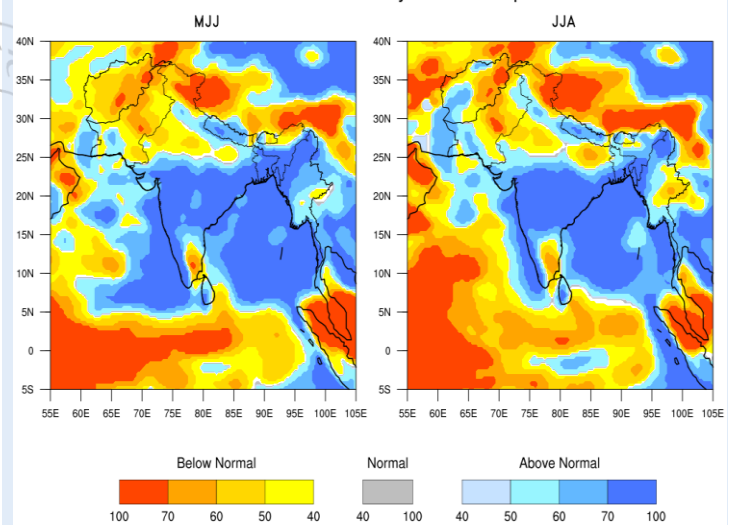


Fig.6: Seasonal probability (%) forecasts of precipitation for (a) MJJ 2025 (left) and (b) JJA 2025 (right) based on initial conditions of April 2025

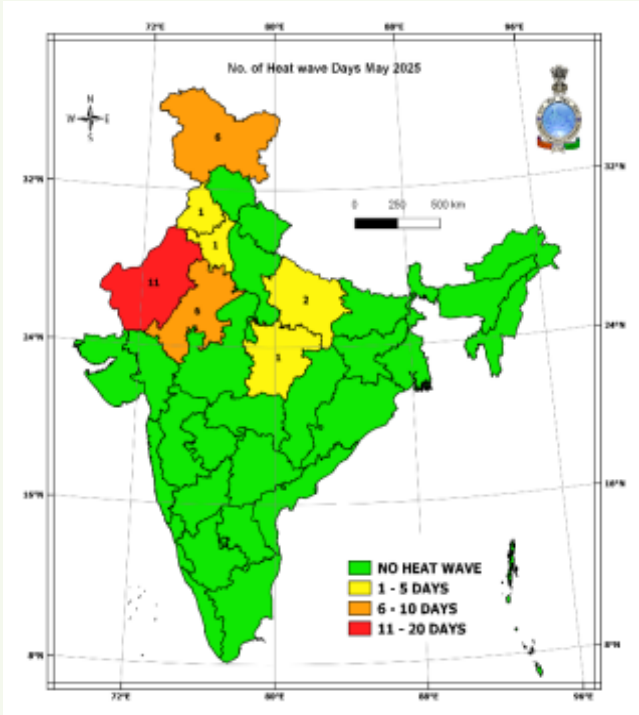


Fig.4. Subdivision-wise heat wave days during May 2025.

## Advance of Southwest Monsoon 2025

Southwest Monsoon covered the entire country on 29<sup>th</sup> June, 2025.

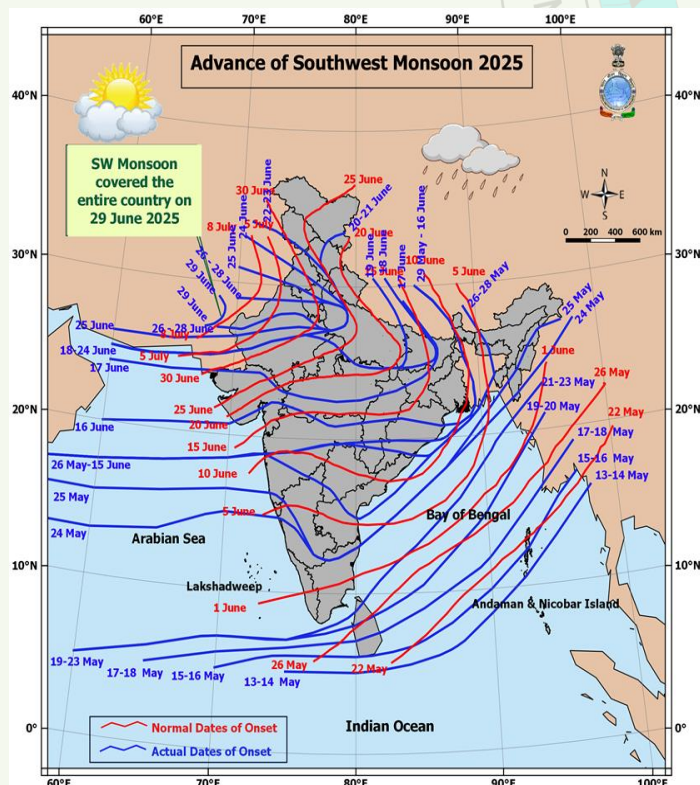
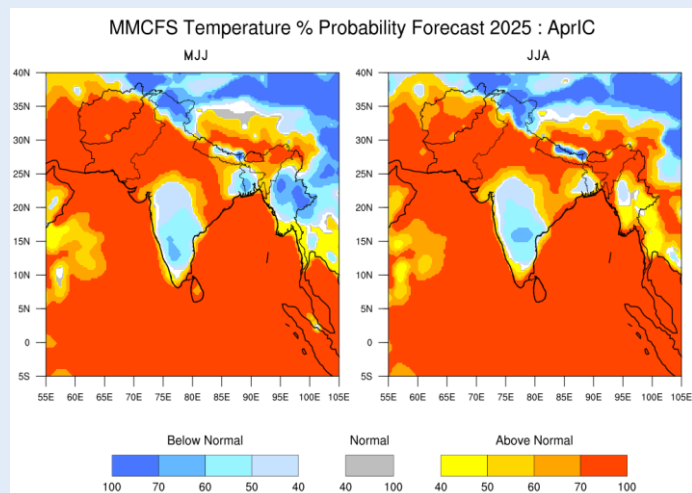


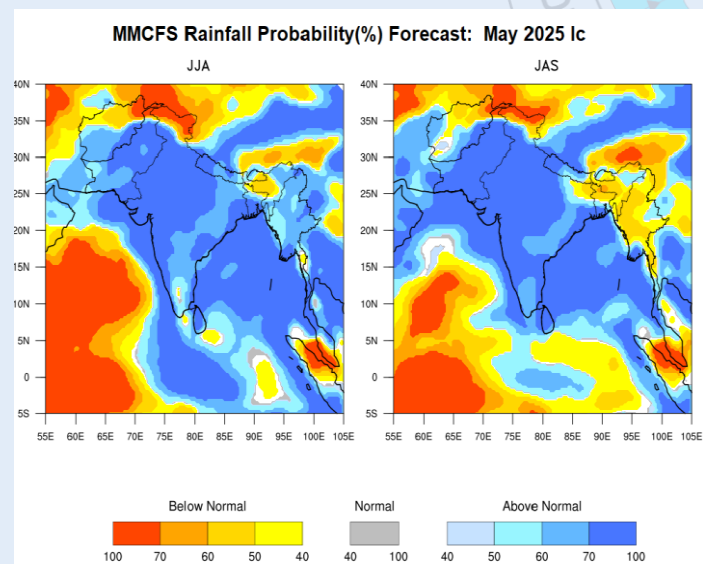
Fig.5. Advance of Southwest Monsoon 2025



**Fig.7: Seasonal probability (%) forecasts of temperature for (a) MJJ 2025 (left) and (b) JJA 2025 (right) based on initial conditions of April 2025**

## Summary of Seasonal climate outlook for South Asia using MayIC (June – September 2025)

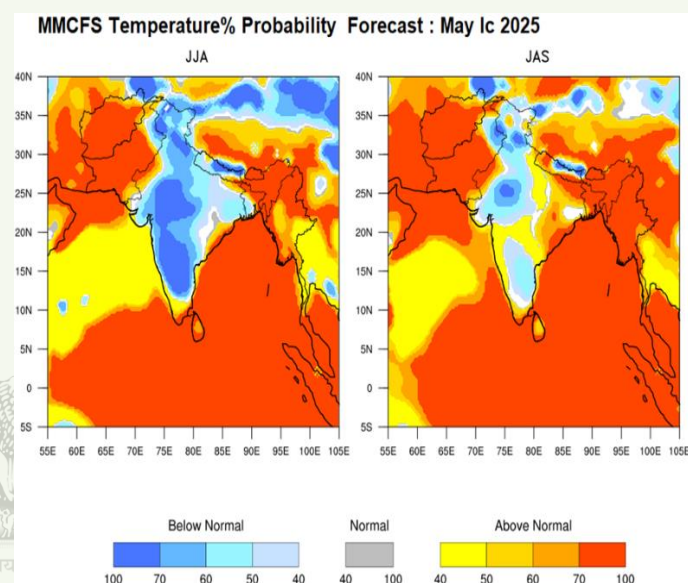
The probability forecast for precipitation for June – July – August (JJA) season indicates that enhanced probability of above normal precipitation is likely over most parts of South Asia except over extreme north where below normal precipitation is likely. The same for July – August–September (JAS) season indicate that enhanced probability of above normal precipitation is likely over most parts of South Asia except over extreme north and northeast and southeast of South Asia (Fig.8).



**Fig.8: Seasonal probability (%) forecasts of precipitation for (a) JJA 2025 (left) and (b) JAS 2025 (right) based on initial conditions of May 2025.**

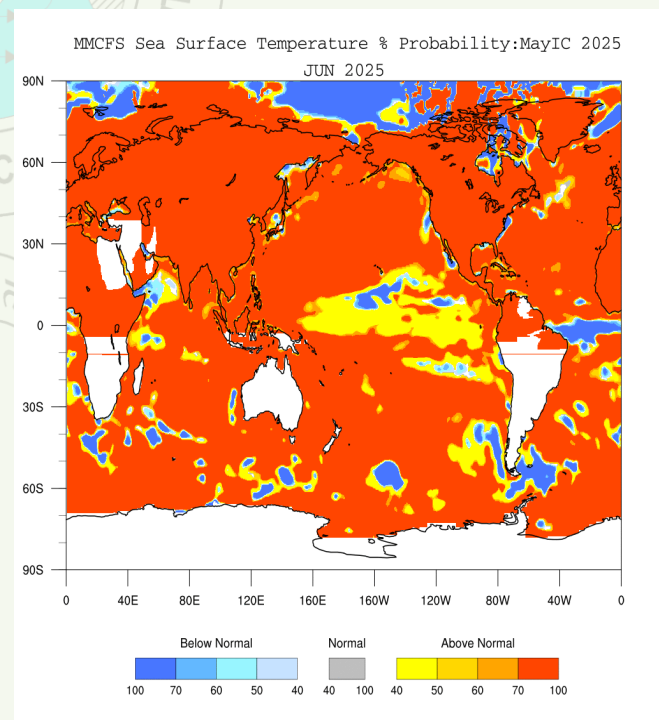
Temperature probability forecast for JJA and JAS seasons indicate that enhanced probability of above normal

temperatures is likely over most parts of South Asia except over Indian land mass where enhanced probability of below normal temperature is likely. (Fig. 9).



**Fig.9: Seasonal probability (%) forecasts of temperature for (a) JJA 2025 (left) and (b) JAS 2025 (right) based on initial conditions of May 2025**

Fig. 10 gives the Global sea surface temperature % probability forecast for the month of June 2025 using the May initial conditions.



**Fig. 10 gives the Global sea surface temperature anomaly and probability forecast for the month of June 2025 using the May initial conditions.**





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