



पृथ्वी विज्ञान
मंत्रालय
Ministry of
Earth Sciences

PULSE

पृथ्वी विज्ञान मंत्रालय

Vol. 1. April- June 2024



Shri Narendra Modi
Hon'ble Prime Minister of India

“The coming 25 years are very crucial for India. It is our nation’s aspirations that matter now. In the next 25 years, India will realise its dream of Viksit Bharat.”





Message from Dr Jitendra Singh, Hon'ble Minister of State (Independent Charge) Earth Sciences; Science and Technology; MoS PMO; Departments of Personnel, Public Grievances, Pensions; Atomic Energy; and Space

As we celebrate the Foundation Day of the Ministry of Earth Sciences, I extend my heartfelt congratulations to all the dedicated scientists, researchers, and staff who have contributed to our nation's remarkable progress. The relentless pursuit of our people has significantly enhanced our understanding of Earth's processes, enabling us to provide timely information, including forecasts and

predictions of natural phenomena, including extreme weather, so that the public is well-informed and stakeholders can initiate mitigation measures effectively.

India's journey towards a Viksit Bharat, envisioned by our Hon'ble Prime Minister, will be driven by science, innovative research and technological development that enriches knowledge and, most importantly, caters to the needs of our people: enhances the quality of their lives and livelihood. The youth of our nation, with their limitless energy and innovative spirit, are integral

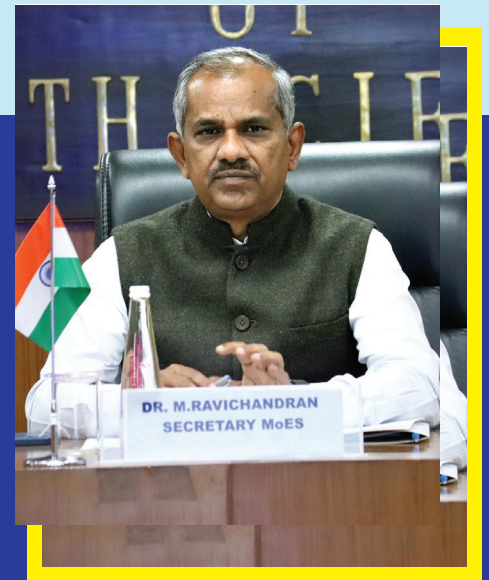
to this progress. I urge more proactive engagement at all levels, in expanding work in Earth system sciences, with a people-, solution-centric, holistic, inclusive, and integrated approach.

As we look ahead to a better and brighter time, let us remain committed to exploring, discovering, and protecting our precious planet with zeal. Together, we can achieve even greater milestones and ensure India becomes a Vishwa Guru in Earth sciences.

Message from Dr M Ravichandran, Secretary to the Government of India, Ministry of Earth Sciences (MoES)

On this momentous occasion of the 18th Foundation Day of the Ministry of Earth Sciences (MoES), I am honoured to extend my heartfelt wishes to our colleagues. The unwavering dedication of our scientists, researchers, and staff have helped us to live up to our motto of S3, which is to expand Science to translate to Service for the benefit of Society. Our efforts aimed at holistically addressing all realms of Earth sciences have yielded sustained progress over the years, especially in areas such as weather, climate, and ocean observations and services, in providing timely and vital information on natural hazards, data and knowledge sharing, capacity building, and scientific exploration and advancement, for our people and country.

Under the visionary guidance of our Hon'ble Prime Minister and our Hon'ble Minister, MoES has achieved remarkable strides in advancing understanding of Earth's system sciences, and we shall strive to continue to do so. We have leadership that fosters a culture of excellence and innovation, inspiring us to achieve newer heights with all our programmes. As we celebrate this important day, we must also acknowledge the challenges and opportunities that lie ahead. Together, with a spirit of collaboration and cooperation, we can continue to expand the boundaries of scientific pursuit and ensure a better future for all. Again, I thank all my colleagues for their outstanding service and dedication.



An important arm for MoES activities is the REACHOUT (Research, Training and Outreach), through which we reach out to the masses and to the young who hold our future. Every year on foundation day, we launch a slew of citizen-centric initiatives from the MoES. This year, I am happy that we have also come out with an MoES newsletter. I am hopeful that, with time, it will grow in terms of its readership, utility, and knowledge quotient. Happy 18th Foundation Day!

Ministry of Earth Sciences (MoES)

The MoES holistically addresses all components of Earth system sciences (atmosphere/air, hydrosphere/water, cryosphere/frozen solid, lithosphere/land and biosphere/life and their complex interactions) to provide reliable services for the country.

MoES is mandated to provide services for weather, climate, ocean and coastal state, hydrology, seismology, and natural hazards; explore and harness marine living and non-living resources sustainably; and explore the Earth's poles (Arctic, Antarctic) and the Himalayas. The functions of MoES are to augment and sustain long-term observations of the atmosphere, ocean, cryosphere and solid earth to record the vital signs of the Earth System and change; to develop forecasting capability of atmosphere and oceanic phenomena through dynamical models and assimilation techniques and to build prediction system for weather climate and hazards; to understand the interaction between components of Earth Systems and human systems at various spatial and temporal scales; to explore polar and high seas regions of the Earth towards the discovery of new phenomena and resources; to translate knowledge and insights from Earth systems science into services for societal, environmental and economic benefit; and development of ocean technology for exploration of oceanic resources and societal applications. The services provided by MoES cater to various international and national agencies, state governments, and local bodies for societal benefit.



The research and development and operational (service) activities of MoES are carried out under the PRITHvi VIgyan (PRITHVI) scheme, approved by the Union Cabinet in January 2024. The PRITHVI scheme encompasses the following five sub-schemes of MoES.

1. **Atmosphere and Climate Research-Modelling Observing Systems & Services (ACROSS).**
2. **Ocean Services, Modelling Application, Resources and Technology (O-SMART).**
3. **Polar Science and Cryosphere Research (PACER).**
4. **Seismology and Geosciences (SAGE).**
5. **Research, Education, Training and Outreach (REACHOUT).**

The Deep Ocean Mission, approved by the Cabinet in 2021, aims to develop deep-sea technologies for manned submersible, deep-sea mining and deep-sea exploration; expansion of ocean climate change advisory services; exploration and conservation of marine biodiversity; acquisition of ocean research vessel, and deep-sea mineral surveys and exploration; and capacity building in marine biology.

MoES mandate is pursued through eleven institutes: India Meteorological Department (IMD), Indian Institute of Tropical Meteorology (IITM), National Centre for Medium-Range Weather Forecasting (NCMRWF), National Institute of Ocean Technology (NIOT), Indian National Centre for Ocean Information Services (INCOIS), National Centre for Polar and Ocean Research (NCPOR), National Centre for Earth Science Studies (NCESS), National Centre of Coastal Research (NCCR), National Centre for Seismology (NCS), Centre for Marine Living Resources and Ecology (CMLRE), and Borehole Geophysics Research Laboratory (BGRL).

MoES website is www.moes.gov.in. Updates are available on social media (Twitter, Instagram, Facebook, LinkedIn, and YouTube) @moesgoi.



MoES in News

MoES remains in the news for its societal initiatives and services rendered for the benefit of the public. Here is a glimpse of media highlights of MoES and its institutes.

IMD issued an updated seasonal outlook for the hot weather season (April to June) 2024 and the monthly outlook for rainfall and temperature for April 2024.



IMD released temperature data for Delhi from its new Automatic Weather Stations (AWS) network installed since the summer of 2022.



IMD conducted the pre-cyclone exercise for April-June 2024. It is a part of biennial preparations to assess the readiness of various stakeholders in disaster management.



IMD released the weather Update on Southwest Monsoon arriving in Kerala and expanding across most of Northeast India.



IMD updated the seasonal rainfall during Southwest Monsoon 2024 by Secretary, MoES.



NCPOR successfully hosted the ATCM-46 and CEP-26.



NCPOR, in collaboration with the British Antarctic Survey, reported unprecedented hindrances to Antarctic ice expansion and unexpected retreat ahead of the annual ice maximum in 2023.



IMD releases prediction of heavy to very heavy rainfall over Maharashtra, Coastal Karnataka, and North Interior Karnataka, and heat wave conditions persist over parts of East and East Central India, Uttar Pradesh and Northeast Madhya Pradesh.



NCPOR hosted the 46th Antarctic Treaty Consultative Meeting (ATCM) and 26th Meeting of the Committee for Environmental Protection (CEP) from May 20 to 30, 2024, in Kochi, Kerala.



Dr Jitendra Singh assumes charge as the MoS (I/C) for the Ministry of Earth Sciences.



IMD shared weather forecasts for the first week of May 2024, updates on heat wave conditions and heavy rainfall with thunderstorms till May 02, 2024.



India is poised to become the 6th country to launch its own Deep Sea Mission: Deep Ocean Mission is anticipated to bolster India's economic growth significantly.



India led pivotal discussions on Antarctic tourism regulation at the 46th Antarctic Treaty Consultative Meeting, hosted by MoES and NCPOR in Kochi, Kerala, May 20-30, 2024.



IMD released predictions of heavy rainfall over Sub-Himalayan West Bengal and Assam-Meghalaya and of heat waves over North India.



IMD shared weather updates for Southwest Monsoon Rainfall Season 2024.



Press briefs from MoES

Ministry of Earth Sciences

During the upcoming hot weather season (April to June), above Normal maximum Temperatures are likely over most parts of country, says IMD

Indian Meteorological Department today released 'Updated Seasonal outlook for hot weather season (April to June) 2024' and

'Monthly Outlook for April 2024 for the Rainfall and Temperature'

Posted On: 01 APR 2024 9:10PM by PIB Delhi

Indian Meteorological Department (IMD) today issued an updated Seasonal outlook for hot weather season (April to June) 2024 and Monthly outlook for April 2024 for rainfall and temperature at Mahika Hall, Prithvi Bhawan, New Delhi.

Ministry of Earth Sciences

Indian Meteorological Department (IMD) conducts Pre-Cyclone Exercise for the season April-June 2024

"India has one of the best early warning system and weather forecasting models" says DG IMD

Posted On: 10 APR 2024 8:02PM by PIB Delhi

Indian Meteorological Department (IMD) conducted Pre-Cyclone Exercise for the season April-June 2024 under the Chairmanship of Dr. Mrutyunjay Mohapatra, Director General, IMD today in Hybrid mode at Mausam Bhawan, New Delhi.

Ministry of Earth Sciences

"Country as a whole most likely to receive above normal rainfall during the Southwest Monsoon season" says Secretary, Ministry of Earth Sciences

Seasonal rainfall likely to be 106 per cent of Long Period Average (LPA) with a model error of ± 5 per cent, says IMD

Long range Forecast of rainfall for the 2024 South West monsoon season released today by IMD

Northern hemisphere snow cover extent during the last three months (January to March 2024) was below normal

Posted On: 15 APR 2024 6:37PM by PIB Delhi

Secretary, Ministry of Earth Sciences, Dr M. Ravichandran told the media today that the country as a whole is likely to receive above normal rainfall during the south west monsoon from June to September 2024.

Ministry of Earth Sciences

New NCPOR study attempts to resolve the Mystery of extremely low sea ice cover in Antarctic

Posted On: 23 APR 2024 5:05PM by PIB Mumbai

Goa, 23 April 2024

A recent study led by Dr. Babula Jena and colleagues from National Centre for Polar and Ocean Research, in collaboration with the British Antarctic Survey, United Kingdom, reported the conditions that led to unprecedented hindrance in Antarctic ice expansion and ice retreat ahead of the annual ice maximum in 2023.

Ministry of Earth Sciences

India set to host the prestigious 46th Antarctic Treaty Consultative Meeting and 26th Meeting of the Committee for Environmental Protection in 2024

Posted On: 01 MAY 2024 2:58PM by PIB Delhi

The Ministry of Earth Sciences (MoES), Government of India, through the National Centre for Polar and Ocean Research (NCPOR), will host the 46th Antarctic Treaty Consultative Meeting (ATCM 46) and the 26th Meeting of the Committee for Environmental Protection (CEP 26) from May 20 to 30, 2024, in Kochi, Kerala. This is in line with India's poise to facilitate constructive global dialogue on environmental stewardship, scientific collaboration, and cooperation in Antarctica.

Ministry of Earth Sciences

Indian Meteorological Department releases weather forecast for the 1st week of May 2024

Heat wave to severe heat wave conditions likely to continue over East India till 02nd May and over south Peninsular India till 03rd May and gradually improve thereafter says Indian Meteorological Department

Heat wave conditions likely over Maharashtra & Gujarat during next 5 days and over Central India during 03rd-05th May

Heavy rainfall spell accompanied with thunderstorms and gusty winds very likely to continue over Northeast India till 02nd May

Ministry of Earth Sciences

India to facilitate the first-ever focused working group discussions on Antarctic tourism at the 46th Antarctic Treaty Consultative Meeting (ATCM) in Kochi

Posted On: 21 MAY 2024 2:36PM by PIB Delhi

India is set to play a pivotal role in facilitating the first-ever focused discussions on regulating tourism in Antarctica at the 46th Antarctic Treaty Consultative Meeting (ATCM) and 26th Meeting of the Committee for Environmental Protection (CEP). The occasion was graced by the presence of Union Minister Shri Kiren Rijiju, Ministry of Earth Sciences (MoES), today National Centre for Polar and Ocean Research (NCPOR), Goa under Ministry of Earth Sciences, and the Antarctic Treaty Secretariat will organize these meetings in Kochi, Kerala, from May 20 to May 30, 2024. The gathering has over 350 participants from nearly 40 nations.

Ministry of Earth Sciences

Indian meteorological Department (IMD) updated Long Range Forecast Outlook for the Southwest Monsoon Rainfall Season (June-September)2024

IMD released Monthly Rainfall and Temperature forecast for June 2024

Above normal rainfall of 106 % LPA likely during the Monsoon (June to September) season 2024

Positive Indian Ocean dipole conditions likely during Monsoon season

Posted On: 27 MAY 2024 6:00PM by PIB Delhi

The Indian Meteorological Department (IMD) today updated its Long-Range Forecast Outlook for the Southwest Monsoon Rainfall Season (June-September) 2024. It also released the Monthly Rainfall and Temperature Forecast for June 2024 in a virtual media interaction today in New Delhi. Dr. Mrityunjay Mohapatra, Director General of Meteorology, presented the forecast.

Ministry of Earth Sciences

The Indian Meteorological Department (IMD) released Temperature data over Delhi

Posted On: 29 MAY 2024 8:45PM by PIB Delhi

The Indian Meteorological Department (IMD) released Temperature data over Delhi based on its Automatic Weather Stations (AWS) network installed since summer season of 2022 and made operational reporting of temperature and rainfall observations for 15 new locations spread over different parts of Delhi and NCR (in addition to manual departmental stations).

Ministry of Earth Sciences

Southwest Monsoon has set in over Kerala and advanced into most parts of Northeast India

Isolated heavy to very heavy rainfall likely to continue over Northeast India during next 4-5 days

Prevailing heat wave to severe heat wave conditions over Northwest & Central India likely to reduce gradually from today

Posted On: 30 MAY 2024 3:31PM by PIB Delhi

Advance of Southwest Monsoon:

- Southwest Monsoon has set in over Kerala and advanced into most parts of northeast India including entire Nagaland, Manipur, Mizoram, Arunachal Pradesh and most parts of Tripura, Meghalaya and Assam today.

Ministry of Earth Sciences

India successfully concludes hosting of the 46th Antarctic Treaty Consultative Meeting (ATCM-46) and the 26th Committee on Environmental Protection (CEP-26)

Parties adopted 17 revised and new management plans for Antarctic Specially Protected Areas (ASPA)

Mystamp customized with the ATCM-46 logo was released in collaboration with India Post

Posted On: 31 MAY 2024 2:31PM by PIB Delhi

India successfully concluded hosting of the 46th Antarctic Treaty Consultative Meeting (ATCM-46) and the 26th Committee on Environmental Protection (CEP-26) from May 20th to May 30th, 2024

Ministry of Earth Sciences

Heavy to very heavy rainfall likely over Maharashtra, Coastal & North Interior Karnataka during next 5 days

A fresh spell of heat wave conditions likely to commence over northwest India from 09th June.

Heat wave conditions likely to continue over parts of east & east central India, Uttar Pradesh and northeast Madhya Pradesh during next 5 days

Posted On: 08 JUN 2024 2:58PM by PIB Delhi

Realised weather in past 24 hours till 0830 hours IST of today:(details in Annexure I)

- Yesterday, Heat wave conditions prevailed in isolated pockets of south Uttar Pradesh.

Ministry of Earth Sciences

Dr. Jitendra Singh assumes charge as the Minister of State (Independent charge) for the Ministry of Earth Sciences

Posted On: 11 JUN 2024 4:58PM by PIB Delhi

Dr Jitendra Singh assumed the charge of Minister of State (Independent Charge) of the Ministry of Earth Sciences (MoES) today at the Prithvi Bhawan headquarters in New Delhi. He was welcomed by Dr. M Ravichandran, Secretary of MoES, along with senior scientists, officials, and MoES staff.

Ministry of Earth Sciences

"India set to be the 6th country to have its own Deep Sea Mission" says Dr. Jitendra Singh

1st Stage of harbor trail (40-50m) deep of deep sea mission planned by September 2024

Deep Sea Mission has the potential to contribute greatly to the overall growth of Indian economy. Union Minister of Earth Sciences

Posted On: 16 JUN 2024 5:43PM by PIB Delhi

"India set to be the 6th country to have its own Deep Sea Mission" says Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science and Technology, Minister of State (Independent Charge) for Earth Sciences, MoS PMO, Department of Atomic Energy and Department of Space and MoS Personnel, Public Grievances and Pensions, Saturday in New Delhi.

Ministry of Earth Sciences

"Heavy to very heavy rainfall with isolated extremely heavy falls very likely to continue over Sub-Himalayan West Bengal & Assam-Meghalaya during next 2 days and isolated heavy to very rainfall thereafter."

"Heat wave to severe heat wave conditions likely to continue over many parts of North India during next 24 hours and gradually abate thereafter due to approaching Western Disturbance towards Northwest India."- says India Meteorological Department.

Posted On: 18 JUN 2024 4:15PM by PIB Delhi

Realised weather during past 24 hours till 0830 hours IST of today: (details in Annexure I)

- Heatwave to severe heat wave conditions prevailed in most parts of Punjab, Haryana-Chandigarh, Delhi and Uttar Pradesh; in some parts of Himachal Pradesh, Uttarakhand, Bihar, north Madhya Pradesh; at isolated pockets over northeast Madhya Pradesh, Odisha and Jharkhand. Heatwave conditions at isolated pockets over northwest Rajasthan, northwest Madhya Pradesh Gangetic West Bengal & Jammu division.

Social Media Highlights

MoES maintains an active presence on social media (Twitter, Instagram, Facebook, LinkedIn, and YouTube) @moesgoi. Follow MoES for everyday updates. Here is a glimpse of top-performing posts from @moesgoi.

MoES Go! @moesgoi

Ministry of Earth Sciences (@moesgoi) warmly welcomes Dr. Jitendra Singh (@DrJitendraSingh) as Minister of State (I/C) for Earth Sciences. We look forward to his dynamic leadership & indomitable spirit to drive innovation & growth in the developmental journey of earth sciences.



Welcomes
Dr Jitendra Singh
Minister of State (Independent Charge)
for Earth Sciences

MoES Go! @moesgoi

Dr. Jitendra Singh (@DrJitendraSingh) takes charge as Minister of State - Independent Charge for the Ministry of Earth Sciences, in the presence of Dr M Ravichandran (@ravi_moes), Secretary, MoES (@moesgoi) and other senior officials of the ministry.



MoES Go! @moesgoi

माननीय डॉ. जितेंद्र सिंह जी ने पृथ्वी विज्ञान मंत्रालय (एमओएस) के राज्य मंत्री (स्वतंत्र प्रभार) का पदभार ग्रहण कर लिया है। पृथ्वी विज्ञान मंत्रालय के सचिव डॉ. एम. राविचंद्रन, सचिव आरिचडी, अधिकारियों और पृथ्वी विज्ञान मंत्रालय के कर्मचारियों के उपस्थिति में उद्घाटन समारोह।

Translate post



माननीय डॉ. जितेंद्र सिंह जी ने पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार) का पदभार ग्रहण कर लिया है। पृथ्वी विज्ञान मंत्रालय के सचिव डॉ. एम. राविचंद्रन, सचिव आरिचडी, अधिकारियों और पृथ्वी विज्ञान मंत्रालय के कर्मचारियों के उपस्थिति में उद्घाटन समारोह।


MoES Go! @moesgoi

On June 15, 2024, Dr Jitendra Singh, Hon'ble MoS (I/C) for Earth Sciences, received a warm welcome from Dr M Ravichandran, Secy, MoES, at Pithvi Bhawan, New Delhi. Hon. Minister chaired a pivotal meeting, focusing on strategic plans spanning 100 days, 5 years & goals up to 2047.



MoES Go! @moesgoi

Congratulations to Dr Shailesh Nayak, Former Secretary, Ministry of Earth Sciences on being awarded with the prestigious Padma Shri for his outstanding contributions in leading the development of first automated Tsunami Early Warning System! #PadmaShri #EarthSciences



Congratulations
Dr Shailesh Nayak
Former Secretary,
Ministry of Earth Sciences
awarded
**Conferred the
Padma Shri Award**

MoES Go! @moesgoi

Celebrating Ocean Decade Week, from 08 April to 12 April 2024. ODW is a decade long global call to action for the sustainable future of our oceans and an opportunity to come together, raise awareness, and ignite meaningful change. @UNOceanDecade



Celebrating OCEAN DECADE WEEK
Organised by
UN Decade Of Ocean Science For Sustainable Development
08 April - 12 April 2024
Barcelona, Spain

MoES Go! @moesgoi

Discover the Wonders of India's Planetary & Space Missions! Join us in unravelling the mysteries of the cosmos as Dr. Anil Bhardwaj, Distinguished Professor & Director of IPR(Ahmedabad), shares insights during #moesgoi's 24th Foundation Day Lecture.



24th FOUNDATION DAY LECTURE
Dr. Anil Bhardwaj, Director, IPR, Physical Research Laboratory, Ahmedabad

MoES Go! @moesgoi

Traversing Ocean's mysteries! The @moesgoi team and students from institutions nationwide embarked on an expedition aboard the ORV Sagar Nidhi to unravel the secrets of the world's lowest geoid anomaly.



Team of Scientists from NCPOR and Students
aboard ORV Sagar Nidhi
to Deploy Ocean-Bottom Seismometers (OBS)

MoES Go! @moesgoi


World Earth Day - April 22, 2024
Let's unite to protect our planet and celebrate Earth Day every day! This year, our focus is on battling plastic pollution for a cleaner and greener Earth.
#EarthDay2024 #PlanetVsPlastics



WORLD EARTH DAY
APRIL 22
PLANET VS PLASTICS

MoES Go! @moesgoi

The STIPMEX Workshop will be held from June 02-07 & dives deep into atmospheric sciences! Themes for this year's workshop vary from latest monsoon dynamics to forecasting extreme weather events among many others. Keep an eye on our social handles for more upcoming updates!



STIPMEX Workshop
ITM PUNE
6th Edition of the STIPMEX Workshop

MoES Go! @moesgoi


India's NCPOR gears up to host the 46th Antarctic Treaty Consultative Meeting and 26th Meeting for Committee of the Environmental Protection in 2024. A milestone moment for global collaboration and environmental stewardship!



MoES NEWS
India's NCPOR set to host 46th Antarctic Treaty Consultative Meeting and 26th Meeting for Committee of the Environmental Protection in 2024

MoES Go! @moesgoi

Meet our buddies, Bhoomi and Pithvi on their journey of exploring the natural wonders of Earth sciences. Join them on their quest to get more updates about Earth System Sciences and the unputdownable work of @moesgoi scientists that keeps us updated and informed. Stay Tuned!



MEET MOES CURIOUS KIDS!

MoES Go! @moesgoi

Traverse depths of Earth's wonders with National Conference on Women in Geosciences! Join us from September 2-4 2024, as pioneering women in geoscience share their journeys, challenges, and triumphs. Check out the abstract submission and registration details for participation.



National Conference
Women in Geosciences: Opportunities, Challenges and Accomplishments
September 02-04, 2024
National Centre for Earth Science Studies
Thiruvananthapuram, Kerala

MoES Go! @moesgoi

मौसम विज्ञान में पूर्णतः नए जमाने का उदय है कि यह कि हमारे में सामान्य में जलवायु और प्राणी जीवन को। इसे हमें फिर एक बार पुराने की जागरूकता से करना है। आधुनिकी जीवन में जलवायु परिवर्तन में हमारे कि जलवायु विज्ञान में कि हमें और भी तेज से सामान्य में जागरूकता से करना है।

Translate post



MoES News
IMD का सुसूचना: अब में सामान्य से जलवायु होने की गामी

MoES Go! @moesgoi

Congratulations to @ncmrfmoes for publishing their assessment report on extreme rainfall events for IFlows Mumbai in the NCUM regional forecasting system, now available on Springer!



ICMRF
For Publishing
Assessment Report
Extreme rainfall events for IFlows Mumbai in the NCUM regional forecasting system at
springer

MoES Go! @moesgoi

Breaking ice and boundaries! India unveils plans for its newest research station in Antarctica, paving the way for groundbreaking discoveries. #AntarcticExploration #IndiaOnIce #ResearchFrontiers



MoES News
India to convey its plans to build a new research station in Antarctica as Antarctic Treaty Consultative Meeting
Dr M Ravichandran, Secretary, MoES

News from MoES

Here is a glimpse of significant events at MoES and its institutes from April to June 2024.



Dr Jitendra Singh assumed the charge of Minister of State (Independent Charge) of the Ministry of Earth Sciences (MoES) on June 11, 2024.

Hon'ble Minister of Earth Sciences, Dr Jitendra Singh, chaired a meeting on June 15, 2024, at MoES HQ, focusing on strategic plans spanning 100 days, five years, and goals up to 2047 for MoES.

INCOIS Director Dr Srinivasa Kumar T co-chaired the working group which prepared the UN Ocean Decade Vision 2030 Challenge 6 White Paper 'Increase Community Resilience to Ocean Hazards' on June 10, 2024.

NCCR prepared the Shoreline Management Plan for Tamil Nadu and submitted the draft report to the Department of Environment and Climate Change, Tamil Nadu.

Air Quality Early Warning and Decision Support System for Jaipur, Rajasthan, was launched by the Hon'ble Chief Minister of Rajasthan, Shri Bhajan Lalji Sharma, on World Environment Day on June 05, 2024.

IITM developed the first version of the IITM-Decadal Climate Prediction System (DCPS), which is being used by the World Meteorological Organization (WMO) Lead Center to prepare the 'Global Annual to Decadal Climate Update'.

IITM published the report titled 'General document on common questions and answers on cloud seeding'.

Timely alerts for Cyclone Remal were issued during May 24-27, 2024.

INCOIS conducted a training program on 'Customization of Ocean Forecast Products' for Regional Integrated Multi-Hazard Early Warning System (RIMES) South Asia Hydromet Forum countries from May 20-24, 2024, under the International Training Centre for Operational Oceanography (ITCOcean).

A special Talk on 'Vision of Earth Sciences in the Amrit Kal' by Padma Shri Dr Shailesh Nayak, Former Secretary, MoES, was arranged to mark Earth Day on April 22, 2024.

The Indian delegation led by India National Decade Coordination Committee (NDC) chair Dr M Ravichandran (Secretary, MoES) engaged with stakeholders from around the globe during the Ocean Decade Week April 08-12, 2024, in Barcelona, Spain.

INCOIS organised a week-long training course on 'Fundamentals of Remote Sensing and Oceanographic Applications' from April 08-12, 2024.

NCMRWF facilitated a familiarisation course on Numerical Weather Prediction for officers from the Indian Navy on April 04-05, 2024.

Agromet advisories were provided to about 7.6 million farmers, weather forecasts, ocean-state forecasts and alerts, adverse-weather warnings, and information on algal bloom, etc., were issued to stakeholders well in time through the latest modes of communication.

Events at MoES



INCOIS conducted a training program on 'Customization of Ocean Forecast Products' for Regional Integrated Multi-Hazard Early Warning System (RIMES) South Asia Hydromet Forum countries from May 20-24, 2024, under the International Training Centre for Operational Oceanography (ITCOcean).

INCOIS organised a 5-day training on 'Customization of Ocean Forecast Products' from May 20-24, 2024, as part of the RIMES-South Asia Hydromet Forum.

INCOIS organised the People-centered Early Warning for the Indian Coastlines (PCTWIN) Kick-off and First Stakeholder Meeting from May 28-30, 2024. This joint initiative by INCOIS-MoES and the University College of London (UCL), UK, is to enhance tsunami early warning systems for India's coastlines.

IITM organised the International Workshop on Stratosphere-Troposphere Interactions and Prediction of Monsoon Weather Extremes (STIPMEX) from June 02-07, 2024.

INCOIS organised training for officials of the National Institute of Rural Development and Panchayati Raj (NIRDPR): Local Government Authority of the Republic of Maldives on June 11, 2024.

INCOIS participated in the 27th ICG/IOTWMS Communication Test as part of the Indian Ocean Tsunami Warning and Mitigation System on June 12, 2024, and issued test bulletins to 26 Indian Ocean rim countries as a Tsunami Service Provider.

INCOIS organised training for officials of the Geological Survey of India Training Institute, Hyderabad, on June 19, 2024.

INCOIS organised the three-day training course on 'Ocean Observation System and Ocean Data Utilisation' from June 19-21, 2024.

NCCR and the National Institute of Water Research (NIVA), Norway, conducted a Hybrid workshop on 'Seagrass Restoration' on June 21, 2024.

MoES and institutes celebrated the International Yoga Day on June 21, 2024.

IITM organised the National Training Workshop on Climate Impacts of Carbonaceous Aerosols and Modeling (NT_CCAM-2) from June 25-27, 2024.



AWARDS

INCOIS received the Geospatial World Excellence in Maritime Services award on May 17, 2024, for creating the SAMUDRA Mobile App (Smart Access to Marine Users for Ocean Data Resources and Advisories) during Geospatial World Forum 2024 (GWF2024), Rotterdam, Netherlands.



Collaborations: MoUs and MoAs



IMD signed an MoU with Onamet, Dominican Republic, on April 23, 2024, for joint research and development of weather and climate services.

IMD signed an MoU with the National Foundation of India on May 06, 2024, to enhance collaboration and raise awareness of extreme weather events.

IMD signed an MoU with Motilal Nehru National Institute of Technology, Allahabad, on May 09, 2024, to enhance collaborative research and development activities.

IMD signed an MoU with Birla Institute of Technology and Science, Ranchi, on May 10, 2024, to enhance collaborative research and development activities focusing on thunderstorms.

INCOIS and Reliance Foundation signed an MoU on May 27, 2024, to empower coastal communities with vital oceanographic information and tools. This collaboration aims to enhance the safety, livelihoods, and resilience of those who depend on the ocean.

NCPOR signed an MoU with New Space India Limited, Bangalore, for 8 MHz transponder capacity to establish 24/7 satellite connectivity with Maitri station, Antarctica, extended until December 2024.

NCPOR signed an MoU with New Space India Limited, Bangalore, for 8 MHz transponder capacity to establish 24/7 satellite connectivity with Maitri station, Antarctica, extended until December 2024.



What's New!

Here are some upcoming events at MoES and its institutes to look forward to.



The National Centre for Earth Science Studies (NCESS), Thiruvananthapuram--an autonomous institution of MoES, is hosting a National Conference on Women in Geosciences: opportunities, challenges and accomplishments, from September 02-04, 2024.

Research Highlights

MoES publishes peer-reviewed academic papers in international high-impact-factor journals. The List of publications from MoES and its institutes (April to June 2024) compiled from Web of Science (Clarivate) and Scopus (Elsevier) can be accessed here.



Know More

Knowledge resources subscribed by MoES for its officials and staff can be accessed 24/7 at www.moeskrc.remotexs.in/user/login



CONNECT

The MoES newsletter welcomes feedback, suggestions, and inputs. Please write at [newsletter\[dot\]moes\[at\]gov\[dot\]in](mailto:newsletter@moes.gov.in), with the subject line: MoES newsletter.

Postal Address

Ministry of Earth Sciences
Government of India
Prithvi Bhawan, Lodhi Road
New Delhi 110003
Phone: +91-11-24669578

Vol. 1. April- June 2024

PULSE

पृथ्वी विज्ञान मंत्रालय

     @moesgoi

