



CORALTIMES *Newsletter*



CENTRE FOR OCEAN, RIVER, ATMOSPHERE AND LAND SCIENCES (CORAL)
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Decoding the Planet's Climate from Sea to Sky

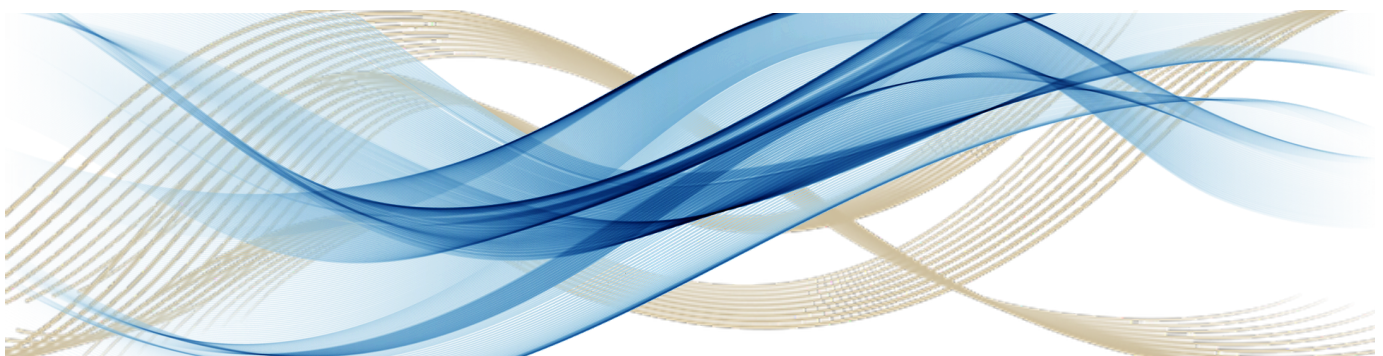


Integrating Earth system science
for climate resilience and global
sustainability.

Top M.Tech and PhD programme in
Earth System Science in India

**Contributing to Viksit Bharat through national
missions in climate, air, monsoon, and ocean systems.**

-from CORAL Team







SPOTLIGHT

1

The centre focuses on cutting-edge research in areas of oceanic, atmospheric, and land sciences, and continues to contribute significantly to understanding climate change, coastal hazards, and sustainable environmental practices. CORAL stands at the intersection of science, education, and action. In an era where climate change poses one of the greatest global challenges, our responsibility is clear: to advance knowledge, build capacity, and foster solutions for a sustainable and resilient world. Alongside research in atmospheric processes, ocean and coastal dynamics, blue economy, and remote sensing for ecosystem sustainability, CORAL is committed to teaching and training. We strive to nurture a workforce of global standards—scientists, innovators, and leaders—equipped to tackle climate challenges across scales. Here, we launch the first edition of our newsletter that features the activities of the centre focussing on the Vikisit Bharat and global sustainability.



Message from the Director

Prof. Suman Chakraborty

It gives me great pleasure to introduce the inaugural edition of CORAL newsletter. This initiative reflects our Institute's shared commitment to advancing knowledge, fostering innovation, and building an academic ecosystem that connects research, education, and societal needs. Through this platform, we aim to highlight CORAL's ongoing endeavours, achievements, and

opportunities while encouraging greater engagement among faculty, students, researchers, alumni and collaborators.

We hope this newsletter serves not only as a record of our activities, but also as a space for meaningful dialogue, interdisciplinary collaboration, and the exchange of new ideas. As CORAL continues to grow, we look forward to strengthening our collective efforts toward impactful research, scientific excellence, and sustainable progress. I invite you to explore the highlights of this edition and join us in this shared journey of discovery and innovation.



Message from the Head

Prof. Parthasarathi Chakraborty

The vision of **CORAL** is to be a leading global hub for interdisciplinary research and innovation in earth sciences, addressing critical challenges such as climate change, extreme weather events, and environmental hazards. By integrating advanced computational techniques, data assimilation, and field studies, CORAL seeks to contribute to sustainable develo-

-pment and informed policy-making for environmental and societal resilience.

CORAL is more than a research centre at IIT Kharagpur—it is a platform that unites discovery, education, and collaboration. By forging partnerships across disciplines and borders, we aim to address both regional needs and global imperatives, contributing meaningfully to the shared fight against climate change.

In this newsletter you will see:

Overview of the centre	1
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ABOUT THE CENTRE

The **Centre for Ocean, River, Atmosphere and Land Sciences (CORAL)** at **Indian Institute of Technology Kharagpur**, established in 2005, provides advanced education and research in Earth System Science and Technology. It offers M.Tech., MS, and PhD programs aligned with national priorities, including initiatives of the M0EOFCC. CORAL conducts cutting-edge research in atmospheric and ocean sciences, focusing on extreme weather air quality and health, data assimilation, climate dynamics, and impact assessment. Oceanographic studies include modelling physics and biogeochemistry of Indian Ocean. Additional areas include ecology, biodiversity, and polar remote sensing, supported by high-performance computational and sponsored research infrastructure.



VISION & MISSION OF THE CENTRE

Vision

- Advance a Deeper Understanding of the Earth and Climate System in a Rapidly Changing World.
- Provide High-quality Education and Training to Develop a globally competent Workforce in Climate Science.
- Gather, Assess and Assimilate High-quality Climate Information to support Evidence-based Decision-making at Local, Regional and Global Scales.
- Disseminate Accurate and Timely Climate or Weather Information to the Public.

Mission

- Establish a Multidisciplinary, Globally Relevant Research Framework that Integrates Regional Focus (Indian Subcontinent and Surrounding Oceans) with Insights of Global International Significance.
- Integrate observations, field experiments, and advanced modelling, including AI/ML, to explore complex Earth system dynamics.
- Investigate interactions among the ocean, rivers, atmosphere, land, and cryosphere, and their cascading impacts on ecosystems, climate, and human well-being.
- Align research with key UN Sustainable Development Goals (SDGs) and international frameworks such as the Paris Agreement and the UN Decade of Ocean Science, thereby strengthening global cooperation for climate resilience and sustainable development.

We actively contribute to the vision of *Viksit Bharat* by engaging with major national missions, including the National Action Plan on Climate Change, National Clean Air Programme, Monsoon Mission, and the Deep Ocean Mission. Through interdisciplinary research, advanced modelling, and data-driven approaches, the Centre supports science-based decision-making and addresses critical challenges related to climate, environment, and sustainability. These efforts aim to generate actionable insights that contribute to national priorities while also advancing knowledge of global relevance.



RESEARCH AREAS



- Ocean dynamics and coastal process
- Atmospheric Physics and Urban Climate
- Atmospheric Pollution and Chemistry-Climate Interactions
- Marine Pollution and Biochemical Cycling
- Ecological Climatology and Carbon Cycling
- Marine Resources and Coastal Hazards
- Polar Climate and Sea Ice Dynamics
- Monsoon Dynamics and Extreme Weather Events

FACILITIES

The centre houses a state-of-the-art ocean biogeochemistry laboratory, equipped with over fifteen advanced instruments for detailed analysis of the chemical and biological properties of water and soil. Complementing this are specialised facilities for ecological remote sensing and physical oceanography, featuring instruments designed for both surface observations and in-field measurements.



Conference room



Polar Science Lab

A 40 m Tall Pheno-Meteorological Tower was established in Similpal BR, Odisha in collaboration with Space Applications Centre (SAC-ISRO) and Odisha State Forest Department. It was inaugurated by Dr. M Mohapatra, DG, Indian Meteorological Department, Delhi, in presence of Prof. VK Tewari, Director IIT Kharagpur on 16th February 2023 during 3rd International Workshop on Biodiversity and Climate Change



Merine Trace Metal Biogeochemistry Lab

COLLABORATIONS

CORAL has established over 80 partnerships with national and international organizations in the past decade, indicating global outreach and collaborative strength in advancing scientific and technological progress. The institute's focus on interdisciplinary research further amplifies the impact of these collaborations, fostering innovative solutions across multiple fields.

Countries	No of Collaborations
India	38
USA	11
Canada	2
Germany	3
New Zealand	3
Comobdia	1
JIK	3
Denmark	1
Switzerland	2
Chile	1
Australia	2
Kenya	2
Japan	1
Nepal	2
France	3
Netherlands	2
Thais	1
Singapore	1
Côte d'Ivoire	1





PROJECTS

Ongoing projects

1. Study of Trace/Toxic metal speciation for risk assessment in the Central Indian Ocean Basin during polymetallic nodules mining: A step towards sustainable deep-sea mining. **National Institute of Ocean Technology, MoES, New Delhi**
2. Graphene-impregnated Coatings of Fibres for Enabling use of Fibre Reinforced Plastic FRP Reinforcement and Tubular Structures of Seawater Sea Sand Concrete Scheme for Promotion of **Academic and Research Collaboration (SPARC), Apex Committee of SPARC, Ministry of Education.**
3. Study of the powering of a swarm of Autonomous Underwater Vehicles over variable topographies **Ministry of Earth Sciences**
4. Sea Ice Energy Balance and Ice-Ocean Process Studies **Space Applications Centre Indian Space Research Organization**
5. Study of Internal-eaves in the Bay of Bengal and Arabian Sea using NISAR observations and numerical model **Space Applications Centre**
6. Tropical cyclone induced storm surges and associated coastal flooding in a changing climate for the North Indian Ocean **India National Centre for Ocean Information Services (INCOIS)**
7. A Holistic Ecosystem-Based Approach for Monsoon Prediction and Sustainable Vegetation/ Forest Management in India **Department of Science and Technology (DST)**
8. Biotechnological Interventions for management of **Protected Areas Department of Biotechnology**
9. Developing a DSS for managing keystone species and carbon services in high altitude wetlands **Anusandhan National Research Foundation (ANRF)**
10. Developing a Forest Carbon Accounting and Monitoring System using multi-sensor Earth Observation and Machine Learning **Space Applications Centre**
11. Multidimensional Assessment of Ecological Dynamics and Ecosystem Health of Selected High Altitude Wetlands of Indian Himalayan Region for Effective Conservation and Management planning G.B. Pant **National Institute of Himalayan Environment (NIHE)**
12. Establishing Control Parameters on Flammability of Plant Species for Reduction of Forest Fire Events and Scientific Management **Science and Engineering Research Board (SERB)**
13. Litter Vision: Combating Plastic Waste Crisis in the Himalayan Regions with AI and IOT - The Cases of Jammu and Sikkim MoEF and CC and GBPNIHESD under **National Mission in Himalayan Studies**
14. Fluid Mixing in Ideal Systems and Earth System Models **Sponsored Research and Industrial Consultancy (SRIC)**
15. CRYOsphere Science Concluding in new Observations and Productive Exploitation **Ministry of Earth Sciences**
16. Multidimensional Assessment of Ecological Dynamics and Ecosystem Health of Selected High Altitude Wetlands of Indian Himalayan Region for Effective Conservation and Management planning G.B. Pant **National Institute of Himalayan Environment (NIHE)**
17. Sea Ice Energy Balance and Ice-Ocean Process Studies **Space Applications Centre, Indian Space Research Organization**



STUDENT ACADEMICS & CAREERS

CORAL offers Master's (M.Tech.) and Doctoral (Ph.D.) programmes in Earth System Science and Technology. Admission to the M.Tech. programme requires a B.Tech./M.Sc. degree with a valid GATE score, while Ph.D. candidates are selected based on GATE/NET/INSPIRE qualification followed by a departmental test and interview. The Ph.D. programme includes coursework and a comprehensive viva-voce prior to enrolment.

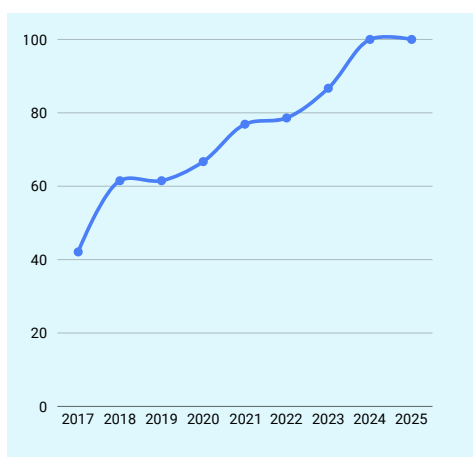
Career path for students of M.Tech. in Earth System Science and Technology:

Students having B.Tech./B.E. in Aerospace Engineering, Agricultural Engineering, Civil Engineering, Mechanical Engineering, etc. M.Sc. in Physics, Mathematics, Geology, Geophysics, etc. with valid GATE score are eligible for applying for this course. Students enrol in the course undergo rigorous course work and two semester project work to get the degree. Along with the study the students are encouraged to participate in different socio-cultural activities organised by the Institute or the centre.

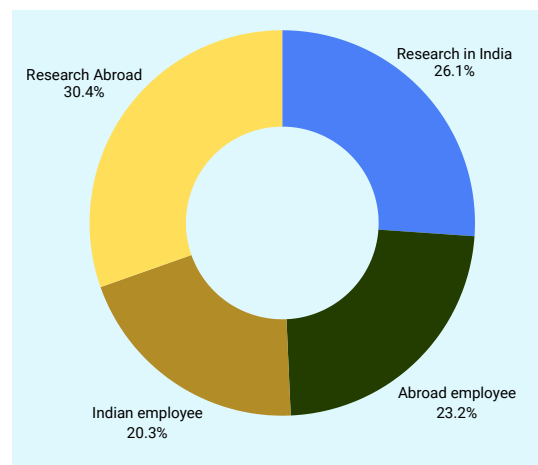
All M.Tech. students are pursuing their career either on research or in non-research domain. It may be seen the shift in their career options since 2020; more of them are opting for jobs instead of higher studies.

Career path of Doctoral graduates:

Over the past decade, our graduates have gone on to distinguished roles as faculty, researchers, and professionals, contributing across India and the global academic and scientific landscape.



M.Tech student success rate over the year



PhD Graduates Across Career Sectors

Internship opportunities

We have hosted summer and winter interns from colleges and universities across India. Since its inception, the centre has welcomed and mentored over 100 interns.

Our alumni have secured positions in leading research labs, prestigious universities, and renowned industries worldwide.





MEET OUR ALUMNI

Anwesha Bhattacharya

**Senior NatCat and Geo Product Portfolio Manager,
ETH Zurich**

My time at CORAL, IIT Kharagpur, where I completed both my MTech and PhD in Earth System Science, played a defining role in shaping my career as a hydrometeorologist. The rigorous academic environment trained me to balance competing priorities and consistently deliver under tight deadlines. Just as importantly, it fostered my ability to collaborate across disciplines and navigate diverse perspectives. These skills have proven invaluable in my current role as a Senior NatCat and Geo Product Portfolio Manager, where I drive product decisions influencing catastrophe modelling and its commercial application on a global scale.



Dhrubajyoti Samanta

**Senior Researcher, Nanyang Technological University,
Singapore**

PhD at CORAL, IIT Kharagpur, was a defining chapter in my journey from a small-town background to global climate science. CORAL combined rigorous training in ocean-atmosphere dynamics with a culture of independence, leadership, and collaboration—I also had the privilege of serving as Research Sc My holars' Representative. It was also where I learned resilience and grew not just as a researcher, but as a person. The friendships and mentorship I found there remain invaluable. The IIT Kharagpur ecosystem gave me the confidence and credibility to step onto the international stage. Today, I work on climate dynamics, modelling, and climate change impacts, building on those foundations to advance science and support societal resilience



Naresh Krishna Vissa

Associate Professor, NIT Rourkela

Dr. Naresh Krishna Vissa is an Associate Professor in the Department of Earth and Atmospheric Sciences, where he leads the modelling of the air-sea interaction lab. His research focuses on large-scale air-sea interaction processes, tropical cyclone-ocean interaction, oceanic mesoscale eddies, and synoptic and mesoscale meteorology. Before joining NIT, Naresh was a postdoctoral fellow at Lancaster University and the University of Dundee, United Kingdom. He completed PhD in atmospheric sciences from CORAL, IIT Kharagpur. He had M.Sc. in Meteorology from Andhra University. Currently, he is founding member and chairman of India Meteorological Society Rourkela chapter.





FACULTIES

**Prof. Abhishek K. Rai**

Active earth deformation
Coastal hazards,
Groundwater vulnerability,
Geothermal exploration

**Prof. A.N.V. Satyanarayana**

Urban Climates, Extreme
Weather Events, Regional
Climate and Air Pollution

**Prof. A. Chakraborty**

Cyclones, Heat Waves,
Atmospheric Rivers
Ocean Modelling and
Process Studies

**Prof. C. Shaji**

Blooms in the Indian
Ocean
Equatorial Undercurrent
Water mass distribution

**Prof. J. Kuttippurath**

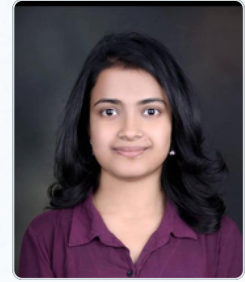
Atmospheric pollution
and its Impact on
climate, ocean-
biogeochemistry

**Prof. M. K. Dash**

Modelling of
Mesoscale Ocean
Processes Cryospheric
Modeling using RS
Internal Waves

**Prof. M. D. Behera**

Phytogeography and
ecological climatology
Land and water
resources
developmental
activities

**Prof. Nairita Pal**

Multiphase flows in
turbulence
Mixing, phase-separation
and interfacial
phenomena in
turbulence

**Prof. P. Chakraborty**

Chemical speciation of
trace/toxic metal
speciation
Marine biogeochemistry
Environmental pollution

**Prof. Pranab Deb**

Climate change and
variability over the polar
regions
Uncertainties in Model
projections

**Prof. Reshmi R. Nayak**

Gravity-Fluid Duality
Geophysical Fluid
Dynamics
Biogeochemical -Ocean
Modelling

AWARDS & HONOURS



Prof. Parthasarathi Chakraborty

AGU International Award and Fellow of the Royal Society of Chemistry (FRSC)

Prof. Parthasarathi Chakraborty has been honoured with the AGU International Award for the year 2025.

Prof Chakraborty was also selected as a Fellow of the Royal Society of Chemistry (FRSC), a recognition of his outstanding contributions to the field.



Prof. Jayanarayanan Kuttippurath

Faculty Excellence Award, 2025

Prof. Jayanarayanan Kuttippurath has been honored with the Faculty Excellence Award 2025 during the 75th Foundation Day celebrations of IIT Kharagpur.



Prof. Mukunda Dev Behera

Prof. M D Behera appointed as Expert Member, DST-Gol International Cooperation Division PAC on Earth, Ocean and Atmospheric Sciences (PAC-EOAS) (2025-2027)

Prof. MD Behera: Vice Chair: COSPAR Sub-Commission A3: Land Processes and Morphology (2025-28)



Dr. Rashmi R. Nayak



Dr. Abhishek K. Rai

Dr. Rashmi R. Nayak and **Dr. Abhishek Kumar Rai** joined the Editorial Board of Scientific Reports as an Editorial Board Member.



Dr. Pranab Deb

Dr. Pranab Deb joined as an associate editor for the Quarterly Journal of the Meteorological Society (QJMS)



EXPLORE RESEARCH OPPORTUNITIES AT IIT KHARAGPUR

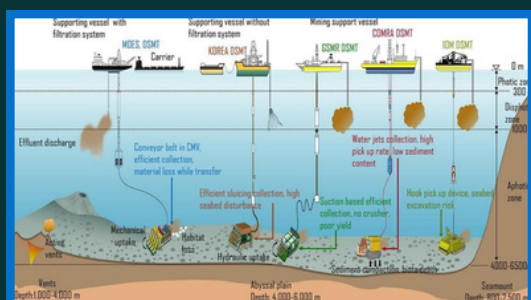
Interested candidates can explore M.tech, PhD and Postdoctoral opportunities through the official application portal of Indian Institute of Technology Kharagpur.

Check this link: <https://www.iitkgp.ac.in/rolling-phd-admission>
<https://gateoffice.iitkgp.ac.in/jmp/d/?id=&p=103>



PUBLICATIONS

Over the past decade, we have published an impressive array of 470+ peer-reviewed research articles, with an average of 42 publications per year. Among the publications, 92 in journals with an impact factor (IF) > 5 and 119 with an IF between 3 and 5. We have 7 publications in IF above 10 journals and 28 publications in IF > 8 journals. Also, 292 out of 426 publications are in the Springer and Elsevier journals. Key journals in which we have published articles include *Journal of Environmental Management*, *Biodiversity and Conservation*, *Applied Geography*, *Communications in Earth and Environment*, *Journal of Climate*, *Geophysical Research Letters*, *Quaternary Journal of the Royal Meteorological Society*, *Bulletin of the American Meteorological Society*, *Ocean Dynamics*, *Progress in Oceanography*, *Climate Dynamics*, *Marine Pollution Bulletin*, *Science of the Total Environment*, *Atmospheric Chemistry and Physics*, *Journal of Geophysical Research*, *Remote Sensing of Environment*, *Scientific Reports*, *Climate and Atmospheric Science*, *Sustainable Society*, *Resources Conservation and recycling*. During the past decade, these publications have fetched about 10000+ citations.



Comparing deep-sea polymetallic nodule mining technologies and evaluating their probable impacts on deep-sea pollution

A recent study in CORAL compares deep-sea polymetallic nodule mining technologies, showing how design choices influence sediment disturbance and deep-sea pollution, and highlighting pathways toward more sustainable mining with reduced seabed impacts.

News Reports:

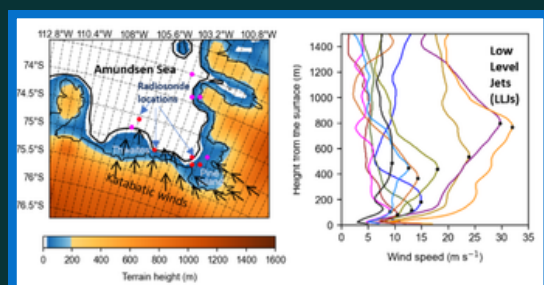
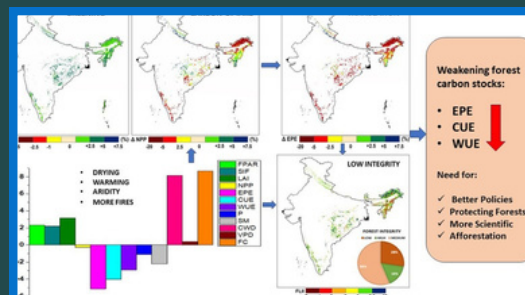
Deep-sea polymetallic nodules are being explored as a future resource by several international consortia, but existing deep-sea mining technologies are not yet environmentally sustainable. This study compares proposed DSM technologies and key components, highlighting environmental impacts and emphasizing the need for further R&D to improve technical performance and environmental protection.

Weakening of forest carbon stocks due to declining Ecosystem Photosynthetic Efficiency under the current and future climate change scenarios in India

A study by Kashyap and Kuttippurath, published in *Resources, Conservation and Recycling*, reveals that Indian forests are losing their ability to convert greenness into carbon uptake due to declining Ecosystem Photosynthetic Efficiency (EPE).

News Reports:

India's forests losing ability to absorb CO₂, more greens not helping carbon uptake
Findings from Indian Institute of Technology (IIT) Kharagpur Broaden Understanding of Climate Change



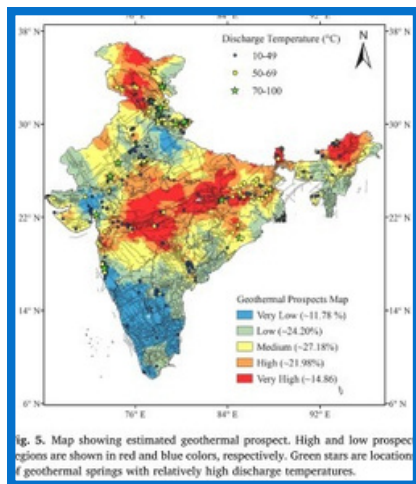
Radiosonde Measurements and Polar WRF Simulations of Low-Level Wind Jets in the Amudsen Sea Embayment, West Antarctica

The Polar Climate Group has revealed frequent, storm-intensified low-level jets over West Antarctica's Amundsen Sea, posing risks to Thwaites and Pine Island glaciers.

News Reports:

Descubren vientos ocultos en la Antártida que aceleran el deshielo del glaciar «Día del Juicio»

Powerful winds known as "low-level jets" discovered near Antarctica's Doomsday Glacier



Re-visiting Geothermal Fluid Circulation, Reservoir Depth and Temperature of Geothermal Springs of India

A recent research paper provides a comprehensive analysis of the reservoir characteristics of major geothermal springs in India. The study successfully constrained reservoir temperatures and depths, which were previously poorly understood.

News Reports:

The Himalayan region showed the highest potential, with temperatures of 150 °C at a depth of approximately 2.11 km. Geothermal energy can help India achieve its ambitious target of 500 GW of renewable energy capacity by 2030, thereby reducing reliance on fossil fuels.

Contribution towards National and Global Missions:

Our research has also made valuable contributions to several national and international missions, as evident from our publications. These include the International Panel for Climate Change (e.g. IPCC AR6 Report), Montreal Protocol, Kyoto Protocol (e.g. WMO Ozone Depletion Assessment Report, 2022), Net Zero, *Knowledge for Climate Change*, *Green India*, *Sustainable Habitat*, *National Clean Air Program (NCAP)*, *Sustainable Agriculture*, *Blue Economy* and *The Himalayan Ecosystem*, supporting efforts to address critical environmental and climate challenges in India. Additionally, our research aligns with the global sustainable development goals (SDGs) and has research publications in all SDGs, particularly the SDGs directly related to the Centre's verticals, such as SDG 13 (Climate Action, 229 publications), SDG 2 (Zero Hunger, 15 publications), SDG 3 (Good Health and Wellbeing, 33 publications), SDG 6 (Clean water and sanitation, 98 publications), SDG 14 (Life Below Water, 47 publications), SDG 7 (Affordable and Clean Energy, 6 publications), SDG 11 (Sustainable Cities and Communities, 54 publications), SDG 12 (Responsible Consumption and production, 114 publications) and SDG 15 (Life on Land, 112 publications). These research publications clearly illustrate the societal applications and contributions to our national missions.

UPCOMING EVENTS



Visit by Vaibhav Fellow Prof Swadhin Behera (JAMSTEC)

Director, Application Laboratory,
JAMSTEC
3173-25 Showamachi, Yokohama,
Kanagawa 236-0001 JAPAN



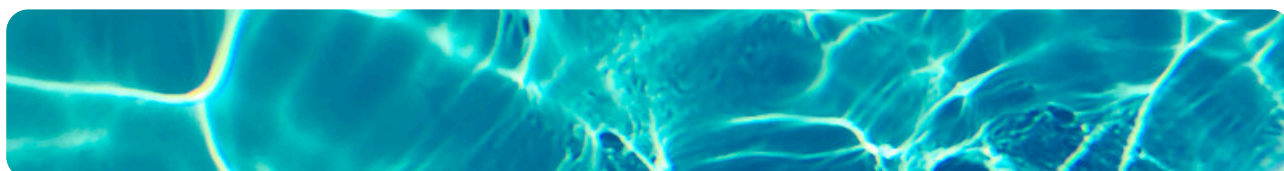
CLIMATE CHANGE, ADAPTATION, MITIGATION AND POLICIES (CAMP - 2026)

CAMP-2026

Organized by

Centre for Oceans, Rivers, Atmosphere and Land
Sciences (CORAL)
at Indian Institute of Technology Kharagpur

Conference period: (3-7)th January 2027





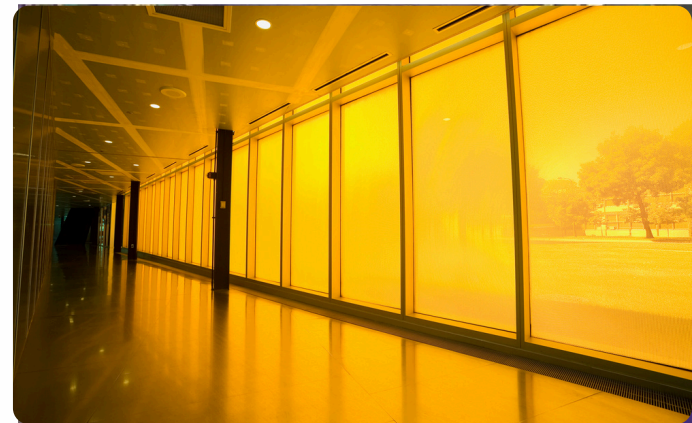
Tribute

Honouring the Leadership and Legacy of CORAL

Celebrating the Leadership of CORAL

CORAL's journey has been shaped by the vision, dedication, and contributions from its heads and associated faculty members whose guidance continues to strengthen the centre's commitment to interdisciplinary research, innovation, and environmental understanding.

Prof. S. Tripathy
Prof. S.K. Satsangi
Prof. C. Chandrashekhar
Prof. D. Sen
Prof. A. Chakraborty
Prof. A.N.V. Satyanarayana
Prof. Anil Kumar Gupta
Prof. Krishna Kumar
Prof. Kinsuk Naskar
Prof. S.K. Dubey
Prof. P. C. Pandey
Prof. Abhijit Gangopadhyay
Prof Saibal Gupta
Prof. Manabottam Mandal (deceased)



A Legacy of Scientific Leadership

Their collective contributions have played an important role in building CORAL as a platform for meaningful scientific research and collaboration in the fields of oceans, rivers, atmosphere, and land sciences.



INTERNATIONAL CONFERENCE

on

CLIMATE CHANGE, ADAPTATION, MITIGATION AND POLICIES (CAMP - 2026)

Organized by

Centre for Ocean, River, Atmosphere and Land Sciences (CORAL)

at

Indian Institute of Technology Kharagpur

Themes of the Conference

Atmospheric and Oceanic Processes

Atmosphere-ocean interactions, monsoon dynamics, air quality, and ocean circulation influencing climate and weather.

Extreme Weather Events and Natural Hazards

Cyclones, floods, thunderstorms, droughts, heatwaves, and disaster risk reduction strategies.

Atmospheric and marine pollution

Exploring air and ocean pollution, their impacts, and sustainable mitigation strategies.

Climate Change: Attribution, Mitigation, Adaptation and Policies

Climate impacts, sustainable mitigation and adaptation strategies, and policy frameworks for climate resilience.

Important Dates

Conference period: (3 -6)th January 2027

Abstract submission: 15th September 2026

Notification of accepted Abstracts: 30th September 2026

Registration open: (15 September - 15 October) 2026

To encourage and recognize emerging researchers, Best Poster Presentation and Best Oral Presentation Awards will be presented to young scientists (below 35 years) in each conference theme. Awardees will receive a certificate, a memento, and a cash prize in recognition of their exceptional research contributions.

Chairman: Prof. P. Chakraborty, Head, pchak@coral.iitkgp.ac.in

Convenor: Prof. P. Deb, pranab@coral.iitkgp.ac.in

Co-convenors: Prof. J. Kuttippurath, jayan@coral.iitkgp.ac.in and
Prof. A. K. Rai, abhishek@coral.iitkgp.ac.in

75 Years of Scientific Excellence: IIT Kharagpur's Journey Towards the Future

The conference provides an ideal platform to celebrate IIT Kharagpur's Platinum Jubilee and showcase its 75-year journey of excellence, innovation, and impact.



CORAL



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- Prof. Jayanarayanan Kuttippurath
- Prof. Pranab Deb
- Prof. Abhishek Kumar Rai

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Department Details

