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Dr. Naresh Krishna Vissa, NIT Rourkela

LOCAL-ORGANIZING COMMITTEE

Dr. Naresh Krishna Vissa, Chairperson, HoD
Dr. Krishna Kishore Osuri, Convener
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PATRON

Prof. K .Umamaheshwar Rao
Director NIT Rourkela

CONVENER

Dr. Krishna Kishore Osuri
Dept. of Earth and Atmospheric Sciences
NIT Rourkela

CO-CONVENER(s)

Dr. Nagaraju Chilukoti
Dr. Rekha S
Dept. of Earth and Atmospheric Sciences
NIT Rourkela

OBJECTIVE

The workshop aims to cover key areas for understanding and enhancing the prediction of severe weather, including coastal hazards in India. This workshop also provides the working experience with the "Indian Ocean Land Atmosphere (IOLA) Coupled model". This model is indigenous and developed from the joint efforts of the National Institute of Technology Rourkela (NITR), the Hurricane Research Division (HRD), NOAA, and the University of Texas at Austin (UT), USA, with the support of Monsoon Mission Phase 3, now, Mission Mausam, IITM/MoES.

PARTICIPATION

This workshop and colloquium are designed to discuss and acquire practical knowledge on the Indian Ocean-Land-Atmosphere Coupled Model, a multi-nesting capable and all-weather model. This workshop will introduce the model to participants, accompanied by lectures and tutorials from eminent resource persons. About 30-35 participants will be accommodated.

There is no registration fee.

For registration please click on this link -

<https://iola26.netlify.app/>



NATIONAL WORKSHOP ON FAMILIARIZATION OF INDIAN OCEAN LAND ATMOSPHERE (IOLA) MESOSCALE COUPLED MODEL TO ADVANCING SEVERE WEATHER AND OCEAN HAZARD PREDICTION

JANUARY 5-9, 2026

Organized by

Dept. of Earth and Atmospheric Sciences
NIT Rourkela, Odisha - 769008

THEMES

• MODELING OF EXTREME WEATHER EVENTS

Dive into advanced modeling and analysis techniques for predicting the behavior and impact of cyclones, extreme rainfall, heatwaves, and other severe meteorological phenomena affecting the region.

• LAND SURFACE PROCESSES MODELING

Explore the intricate feedback loops between land surfaces, oceanic conditions, and atmospheric patterns, focusing on how these interactions drive regional climate and weather systems.

• OCEAN PROCESSES AND MODELING

Gain a deeper understanding of critical oceanic dynamics, including current systems, wave mechanics, and thermal structures, and their significant influence on atmospheric conditions and weather forecasting.

• COASTAL HAZARDS

Focus on the assessment and mitigation of coastal risks such as storm surges, shoreline erosion, and potential tsunami impacts, aiming to develop better strategies to protect vulnerable coastal populations and infrastructure.

ABOUT THE INSTITUTE

National Institute of Technology (NIT) Rourkela is an institute of national importance under the Ministry of Education, Government of India. The main objective of the Institute is to produce quality Engineers and Scientists in Graduate and Post-Graduate levels in various branches of Engineering and Science. It promotes advanced research across the disciplines.

ABOUT THE DEPARTMENT

The Department of Earth and Atmospheric Sciences is set up to provide state of the art education and research in earth, climate, ocean, and planetary sciences. The department promotes interdisciplinary research linking geological processes, natural hazards, environmental issues, weather and climate. The department is completing ten years of its existence in 2023. Currently, the department offers MSc (Applied Geology & Atmospheric Science), M.Tech (Atmosphere and Ocean Science), and PhD.

VENUE

BHUBANESWAR, ODISHA
INDIA



CONTACT PERSON

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