

International Workshop on Land-Ocean-Atmosphere Interaction, Greenhouse Gases and Coastal Processes (LOA 2018)

24th July to 5th August, 2018

IISER Kolkata, Mohanpur-741246, West Bengal, India

About the workshop

Land-ocean-atmosphere interactions play an important role in modulating the weather and climate processes at local, regional and global scales, particularly the South Asian monsoon system. Although the monsoon manifests the natural cycle in the land-ocean-atmosphere interactions, the human perturbations are showing large impacts on living conditions of the Earth's environment. In the recent years, management of resources on land are identified as critical for achieving the sustainable development goals (SDGs) of the United Nations (www.un.org). The activities on land, such as forest clearance for cities, river water management for our livelihood and air pollution and greenhouse gas emissions due to industrial activities can alter many of the ecosystem processes, which could have serious impact on the marine resources and greenhouse gas cycling. An improved understanding of the land-ocean-atmosphere interactions will therefore allow us to manage terrestrial and coastal resources nationally for maximize benefits on people's livelihood as well as environmental protection.

Scope of the workshop

In this international workshop, we intend to bring together early career scientists and senior scientists from India and abroad such as SAARC countries with proven work experience in the topics of terrestrial biosphere, oceanic processes and atmospheric trace gases and aerosols. It will include a series of talks and hands-on training on concepts, measurements and data analysis, and field visit to a land-ocean boundary based coastal ecosystem in the Sundarbans. Over the period of 2 weeks, the participants will be able to interact on possible research projects and design experiments for further explorations jointly with the world's leading scientists.

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