

Observing Marine Ecosystem Structure and Function: From Microbial Communities to Fisheries and Human Health

26–31 October 2026

Organized by International Training Centre for Operational Oceanography (ITCOcean), ESSO-INCOIS, Ministry of Earth Sciences, Government of India, Hyderabad, India.

This upcoming international training programme is endorsed under the UNESCO Ocean Decade framework and is being organized in connection with the Second TREVOR (Trends, Reflections, Evolution and Visions in Ocean Research) and Third SAFARI (Societal Application in Fisheries and Aquaculture using Remote Sensing Imagery) Symposium. The programme is jointly organized by INCOIS in collaboration with the Partnership for Observation of the Global Ocean (POGO), Trevor Platt Science Foundation (TPSF), Chemical Oceanography Division (CUSAT), International Ocean Colour Coordinating Group (IOCCG), and other partners.

Course Overview

The programme is designed for early-career researchers and combines online learning, intensive in-person training, field observations, and participation in an international scientific symposium. It integrates marine biogeochemistry, ocean optics, ocean-colour remote sensing, and ecosystem monitoring with practical applications for fisheries, aquaculture, climate studies, and human health.

Course Structure

- Online lectures and interactive sessions.
- In-person lectures and computer practicals at ITCOcean, INCOIS, Hyderabad (26–31 October 2026).
- Field training at Vembanad Lake, Kochi (1–3 November 2026).
- Participation in the TREVOR–SAFARI Symposium, Kochi (4–6 November 2026).

Course Objectives

- Introduce satellite oceanography and marine biogeochemistry.
- Train participants in bio-optical observations and satellite data processing.
- Develop skills in analysing ocean-colour and biogeochemical datasets.
- Apply remote sensing for ecosystem health assessment and societal applications.

Learning Outcomes

Participants will gain practical skills in analysing marine biogeochemical processes, using bio-optical instruments, processing satellite datasets, monitoring marine ecosystem health, and designing research projects using satellite remote sensing.

Target Audience

National and international students, early-career researchers, scientists, and professionals in oceanography, environmental science, climate science, fisheries, aquaculture, and marine resource management.

Application Process

Applicants must complete the online application form and submit a one-page CV together with a signed letter of support from their institution. Applications are submitted by email to itcoocean@incois.gov.in with the subject 'TREVOR26-INCOIS Training'.

Important Dates

Application deadline: 15 April 2026

Phase I (INCOIS, Hyderabad): 26–31 October 2026

Phase II (Field Training, Kochi): 1–3 November 2026

Phase III (TREVOR–SAFARI Symposium): 4–6 November 2026

Venue

International Training Centre for Operational Oceanography (ITCOocean), INCOIS, Ocean Valley, Pragathi Nagar, Hyderabad, Telangana, India.

Programme Significance

This UNESCO Ocean Decade-endorsed programme supports the Ocean Decade vision of generating the science needed for the ocean we want. It strengthens international capacity development, promotes collaboration among scientists and institutions, and equips early-career researchers with advanced knowledge and practical skills in satellite oceanography, marine ecosystem monitoring, and sustainable ocean management.

Programme Coordinators

Dr. T. V. S. Udaya Bhaskar, Head, ITCOocean (itcoocean@incois.gov.in; uday@incois.gov.in)