



The Abdus Salam  
International Centre  
for Theoretical Physics



# 7th Summer School on Theory, Mechanisms and Hierarchical Modelling of Climate Dynamics - Estimating Ocean Transports: Single Sections, Box Models and Reanalysis Products

## DESCRIPTION:

The School will introduce participants, with an emphasis on attendees from the Global South, to the GO-SHIP program, inverse models, international programs for observing systems, reanalysis products, and will stimulate their scientific involvement within existing programs.

## MORE INFORMATION:

The School will provide participants with the necessary theoretical and practical knowledge in order to use, manipulate and analyze oceanographic data. The aims are threefold: (i) to use datasets from the Global Ocean Ship-based Hydrographic Investigations Program (GO-SHIP) and inverse modelling techniques to compute oceanic transports; (ii) to analyze existing Atlantic observational arrays (e.g., OSNAP, RAPID, MOVE, SAMBA/SAMOC); (iii) to complement observational products with a variety of ocean reanalysis.

The School, organized over a 10-day period as an in-person event, will include theoretical lectures on the current state of knowledge as well as practical sessions with the development of student projects to provide a hands-on approach to the understanding of the material presented in the lectures.

## TOPICS:

- Inverse models
- Observational time series
- Ocean models and reanalysis



**29 June - 11 July 2026**



**Trieste, Italy**



**Deadline:  
30 April 2026**

## DIRECTORS:

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Veronica Caínzos-Díaz, Georgia Tech, USA  
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## LOCAL ORGANISER:

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## FURTHER INFORMATION:

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Web: <https://indico.ictp.it/event/11150/>

Female scientists are encouraged to apply

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

