

International Center for Climate Change Studies

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Università Iuav
di Venezia



Ca' Foscari
University
of Venice

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LIVING ON THE **WATER**

Towards 2100 - Sea level Science in **Venice**

Venice has been facing challenges from its coastal environment since it was founded. Sedimentation has threatened its vital waterways in the past, and subsidence along with high waters began affecting buildings and streets. Today, rising sea levels are expected to worsen flooding, necessitating engineering solutions to protect the lagoon's heritage. In June 2025, Venice will become the center of global climate research hosting **three international events** focused on sea-level change.

Summer School "Climate Change in coastal areas: knowledge, resilience, adaptation"


 June 12-17th, 2025

 Sala del Portego di palazzo Franchetti - Venice

Lead Organisers: *Alessio Rovere, Davide Zanchettin, Giulia Lucertini, Denis Maragno, Filippo Magni*

The **International Center for Climate Change Studies**, a newly established institute bringing together Venetian universities and research centers, is organising its inaugural summer school. This program is designed for Early Career Scientists (ECRs) and will feature lectures conducted by international experts. The program's objective is to equip young scientists with the understanding of the dynamic interactions between atmosphere, ocean and land that shape the evolution of coastal zones, alongside with an understanding of dynamic adaptation, resilience and urban planning.

Conference "WARMCOASTS: sea level and extreme waves in the Last Interglacial"


 June 18th, 2025

 Ca'Dolfìn - Saoneria, Ca' Foscari University of Venice - Venice

Lead Organisers: *Alessio Rovere, Elisa Casella, Silas Dean, Ciro Cerrone, Ali Mubashir*

WARMCOASTS is a project funded by the **European Research Council** to understand changes in sea level, rapid ice-sheet collapse and subsequent sea-level rise and extreme storms in the Last Interglacial. This is the last period that the Earth was slightly warmer than today and represents an important calibration for future climate projections. The project will end in September 2025. Besides highlighting the project results, the conference day will host some of the most prominent scientists working on this period, who will present their recent research.

Workshop "Warmer coasts in a warming world: predictions, processes, and proxies, from past to present"

 June 19th - 21st, 2025

 Aula Danilo Mainardi, Ca' Foscari University of Venice - Mestre

Lead Organisers: *Matteo Vacchi, Gaia Mattei, Marta Pappalardo, Patrizia Ferretti, Alessandro Fontana*

Scientific committee: *Juliet Sefton, Roger Creel, Holly Han, Tamara Pico, Claudia Caporizzo, Ana Novak, Matthieu Giaime, Driss Chahid.*

Workshop fee: 100 euros

This workshop is organised by the working groups **PALSEA** and **ONSEA**. It will bring together researchers from diverse disciplines spanning sea level science, glaciology, solid Earth dynamics, geomorphology, and archaeology to explore how sea-level change has shaped coastal environments through time. Featuring scientific sessions, a field trip, and collaborative discussions, the workshop aims to advance interdisciplinary integration by fostering dialogue that meshes observations and modeling. This workshop will strengthen the scientific basis for understanding past, present, and future ice sheet and sea level changes, emphasizing the connections between environmental processes and human responses. Researchers from all career stages are encouraged to participate.

Living on the water is sponsored by the **International Center for Climate Change Studies**, a joint cooperation between **Ca' Foscari University of Venice** and **IUAV Venice**, funded by the Italian Ministry for University and Research. **PALSEA** is sponsored by the **International Union for Quaternary Research (INQUA)** and **Past Global Changes (PAGES)** and **INSTANT (Instabilities and Thresholds in Antarctica)**. **ONSEA** is sponsored by **INQUA**. The **WARMCOASTS** project is sponsored by the **European Research Council (ERC)** under the European Union's Horizon 2020 Research and Innovation Programme (grant agreement n. 802414).

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