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Earth Systems Summer School 2024

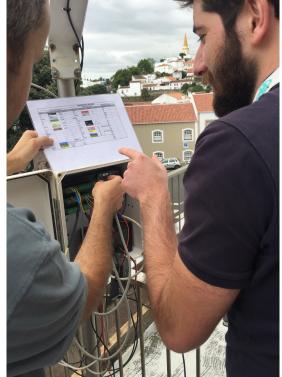






Land-Atmosphere-Ocean Interactions in a Changing Planet:

A hands-on approach to Earth observation and modelling





For PhD students and other post-graduate students in all topics of Earth System Science, including Meteorology and Climate, Physical Oceanography, Geology, Geodesy, Geophysics and **Environment.**

Course Description

The summer school will include lectures, hands-on sessions and field trips on various topics of Earth Systems. We will focus on the dynamics of and interactions between the different spheres of the Earth: solid Earth, ocean, atmosphere and biosphere. Lectures will focus on state-of-the art research and recent advances. Hands-on sessions will include observation, field work, and data analysis. The topics of hands-on sessions will cover atmospheric processes, coastal environments, oceanic and estuarine dynamics, geophysics & geodynamics, and machine learning. Field work includes both land and ocean observations.





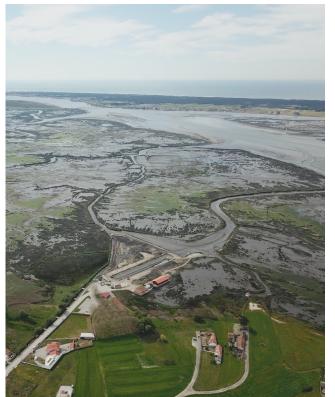
Organization

João Miguel Dias, CESAM & Univ. Aveiro Daniele Bortoli, ICT & Univ. Évora Pedro Costa, IDL & Univ. Coimbra Pedro Miranda, IDL & FCUL, Univ. Lisbon Susana Custódio, IDL & FCUL, Univ. Lisbon



Fee: 300 euros

The fee includes the registration, lodging in university student accommodation, lunches, dinners and field trips. All other costs, including traveling to the venue, must be covered by the students.







Applications

Pre-application deadline: 1/Mar/2024. For applications received until this date, the organization will prioritize candidates in the two first years of their PhD programs. We will also aim to maximize networking between students from different scientific areas and institutions. After the pre-application deadline, applicants will be selected on a "first come, first served" basis. Final deadline: 31/May/2024.

Applications should be sent by email to earthsystems@fc.ul.pt.

Applications must include the applicant's CV and a short motivation letter from the candidate, including the title of the PhD, supervisors and year of PhD.

Maximum number of students: 35.

Location

Lectures and Practicals
at Aveiro University;
Field activities in
Aveiro Lagoon,
Geoparque Arouca and
Vagueira Beach





Lecturers

Opening Address by Sierd Cloetingh, Geosciences & Tectonics, University of Utrecht João Miguel Dias, Physical Oceanography, CESAM & Aveiro University Francisco Doblas Reyes, Climate Modelling, Barcelona Supercomputing Center Wouter Schellart, Geodynamics, Vrije Universiteit Amsterdam Juan Picos, Forest Fires, Vigo University Agata Dias, Marine Georesources, IDL & FCUL, Lisbon University Alexandra Paz, Geology, Geoparque Arouca Caroline Ferreira, Physical Oceanography, IDL & ARDITI Daniele Bortoli, Atmospheric Physics, ICT & Evora University Davide Gamboa, Marine Geology, CESAM & Aveiro University Emanuel Dutra, Climate Modelling, IPMA & IDL Flávio Couto, Atmospheric Sciences, ICT & Évora University Henrique Duarte, Marine Geophysics, Geosurveys Isabel Trigo, Remote Sensing, IDL & IPMA Joana Ribeiro, Environmental Geology, IDL & Coimbra University Luís Matias, Seismology, IDL & FCUL, Lisbon University Magda Sousa, Physical Oceanography, CESAM & Aveiro University Maria João Costa, Atmospheric Physics, ICT & Evora University Mário Abel Goncalves, Geochemistry, IDL & FCUL, Lisbon University Marta Neres, Geophysics, IDL & IPMA Miguel Neves, Seismology, GeoAzur Nice Miguel Potes, Atmospheric Physics, ICT & Evora University Nuno Vaz, Physical Oceanography, CESAM, & Aveiro University Paulo Batista, Marine & Coastal Geology, CESAM & Aveiro University Paulo Silva, Physical Oceanography, CESAM & Aveiro University Pedro Costa, Coastal & Marine Geology, IDL & Coimbra University Pedro Miranda, Meteorology, IDL & FCUL, Lisbon University Pedro Mocho, Paleontology, IDL & FCUL, Lisbon University Rodrigo Amaro e Silva, Solar Energy, Centre OIE - MINES Paris Rui Salgado, Atmospheric Physics, ICT & Evora University Sara Silva, Machine Learning, LASIGE & FCUL, Lisbon University Susana Custódio, Seismology, IDL & FCUL, Lisbon University Vanda Salgueiro, Atmospheric Physics, ICT & Evora University

