

10th Earth Systems Summer School

Land
Atmosphere
Ocean
Interactions in a
Changing Planet:
A hands-on
approach to Earth
observation and
modelling



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2026
19 – 24, July
Coimbra,
Portugal



Fundação
para a Ciência
e a Tecnologia



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DO AMBIENTE E
DO MAR



CREATE
CENTER FOR SCI-TECH RESEARCH
IN EARTH SYSTEM AND ENERGY

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e Energia



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E VIDA



LABORATÓRIO DE
RADIOATIVIDADE
NATURAL



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

Organization

Joana Ribeiro,
IDL & Univ. Coimbra
João Miguel Dias,
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Maria João Costa,
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Contacts

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The Course

This international summer school includes 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, including field work, and data analysis. The topics of hands-on sessions will cover atmospheric processes, coastal environments, oceanic dynamics, geophysics and energy systems. Field work includes both land and ocean observations. Students will present their work in a final presentation. Various social activities are planned, including an ice breaker, group dinner, beer & PhD pitches, and a tour to selected UNESCO World Heritage sites of the University of Coimbra.

Fee: 600€

The fee includes the registration, lodging in double rooms in high-quality student residence halls with access to gym & swimming pool, lunches, coffee breaks, field trips and social activities. All other costs, including traveling to the venue, must be covered by the students.

Applications

Pre-application deadline is 11/Mar/2026. For applications received until this date, priority will be given to candidates in the first two years of their PhD programs. After the pre-application deadline, applicants will be accepted on a “first-come, first-served” basis. The final deadline for application is 31/May/2026. Applications should be submitted [here](#). Applications must include the applicant's CV and a short motivation letter from the candidate. Maximum number of students: 30.



Location

Lectures and Practicals at University of Coimbra;
Field activities in São Pedro de Moel and Figueira da Foz.



Lecturers

Keynote Lecture by George Helffrich, Geodynamics, ELSI & Univ. Tokyo
Keynote Lecture by Ricardo Trigo, Climate Science, IDL & Ciências ULisboa
Keynote Lecture by Paulo Relvas, Oceanography, CCMAR & Univ. Algarve
Afonso Loureiro, Ocean Bottom Sensing, IDL & ARDITI
Alexandre Koberle, Climate Modelling, IDL & Ciências ULisboa
Ana Machado, Oceanography, IDL & Ciências ULisboa
Carmen Córdoba-Jabonero, Atmosphere Physics, INTA
Daniele Bortoli, Meteorology, CREATE & Univ. Évora
Eric Font, Geomagnetism, IDL & Univ. Coimbra
Humberto Pereira, Oceanography, CESAM & Univ. Aveiro
Luís Miguel Gaspar, Georesources, IDL & Ciências ULisboa
Luís Pedro Almeida, Coastal Systems, IDL & Ciências ULisboa
Luís Vítor Duarte, Geology, MARE & Univ. Coimbra
Magda Sousa, Oceanography, CESAM & Univ. Aveiro
Marion Ranaivombola, Atmospheric Modelling, CREATE & Univ. Évora
Miguel Potes, Meteorology, CREATE & Univ. Évora
Nuno Vaz, Oceanography, CESAM & Univ. Aveiro
Pedro Costa, Coastal Geology, IDL & Univ. Coimbra
Pedro Pina, Remote Detection, IDL & Univ. Coimbra
Rodrigo A. Silva, Sustainable Energy Systems, IDL & Ciências ULisboa
Rui Salgado, Meteorology, CREATE & Univ. Évora
Susana Custódio, Geophysics, IDL & Ciências ULisboa

