

# EARTH SYSTEM SUMMER SCHOOL | 2018

## Earth System interactions: processes and impacts

8-14 July 2018: Madeira Island



**Coordination:** Rui Caldeira (ARDITI/IDL), Emanuel Dutra, Pedro Miranda (IDL, U. Lisboa), Rui Salgado (U. Évora), Eduardo Brito de Azevedo (U. Açores).

The 5<sup>th</sup> *Earth System Summer School* focuses on the “Interactions between large and small scales”. The interactions between the different Earth System components (atmosphere, land, ocean, solid earth, tectonics) are crucial to understand past, present, and future processes of Global Change. Several of these interactions are associated with feedbacks which often lead to an intensification of effects, some of which have serious impacts on our society (e.g. flash floods and extreme fires).

The summer school will focus on a range of processes operating at time-scales from hours to millennia. Explored themes will include atmospheric convection, land-atmosphere coupling, coastal interaction, plate boundary dynamics, island evolution, high-impact events, and the way these can evolve on a changing earth system.



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FCT PhD  
PROGRAMMES

The summer school is open to PhD students in Earth System programs (atmospheric, oceanic, coastal and solid earth), as well as to other interested researchers. The summer school will be integrated in an observational oceanographic and atmospheric campaign focusing on island atmospheric and oceanic wakes including 1 day on board an oceanographic research ship. The participants will also have the opportunity to handle some of the observational records with hands-on sessions using python.

Registration fee: 100€ (includes lunch and coffee breaks). Registration deadline 15 may 2018 through this [form](#). Please contact [endumtra@fc.ul.pt](mailto:endumtra@fc.ul.pt) or [tmferreira@fc.ul.pt](mailto:tmferreira@fc.ul.pt) for more information.

More details on [idl.campus.ciencias.ulisboa.pt/training/](http://idl.campus.ciencias.ulisboa.pt/training/)

## Lecturers (alphabetical)

Alexandre Stegner | LMD, Ecole Polytechnique, France

Christoph Schär | ETH, Zurich

Emanuel Dutra | IDL, University of Lisbon, Portugal

Jean-Baptiste Filippi | University of Corsica, France

Joana Barcelos Ramos | IITAA - University of Azores, Portugal

João Duarte | IDL, University of Lisbon, Portugal

Julie Pullen | Stevens Institute of Technology, USA

Miguel Potes | University of Évora, Portugal

Pedro Miranda | IDL, University of Lisbon, Portugal

Ricardo Ramalho | IDL, University of Lisbon, Portugal

Rui Caldeira | ARDITI/IDL, Madeira, Portugal

Rui Salgado | University of Évora, Portugal

Rui Taborda | IDL, University of Lisbon, Portugal

Scott Giangrande | Brookhaven National Laboratory, USA

Sierd Cloetingh | Utrecht University, Netherlands

Xavier Bertin | La Rochelle University, France