# Registration at opencoasts.lnec.pt/index en.php



## **OPENCoastS e-Tutorial:** from processes knowledge to on-demand circulation forecasts 13 of December 2018







Supported by



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opencoasts.ncg.ingrid.pt

### Goal:

- Introduce OPENCoastS, an innovative and free platform to generate on-demand forecasts
- Empower potential users by providing an introduction to the relevant physical processes, the numerical model SCHISM and unstructured grid generation
- Minimize the learning effort by a step-bystep tutorial on the use of OPENCoastS

### **Course platforms**

- Colibri platform
  - Registration compulsory, limited number of participants
  - Link provided on registration confirmation
- On-site participants
  - Registration compulsory, limited number of participants:

#### Sites:

- LNEC, conference room 2
- University of Cantabria (UC), Civil Engineering School, classroom 25
- CNRS/University of La Rochelle (UR)

Web streaming

Link provided at opencoasts.lnec.pt

### **Program** (all hours are CET):

Morning: 10:00-13:15

- Welcome and quick explanation on the course (LNEC)
- T1 Coastal processes (UC)
- 10 min break
- T2 Understanding and using Model SCHISM (CNRS/UR)
- T3 Generation of triangular finite element grids for coastal models (LNEC)

Lunch break

#### Afternoon: 15:00-17:25

- T4 Forecast systems: an overview (LNEC)
- T5 The OPENCoastS service (LNEC)
- 10 min break
- T6 E-infrastructures and how can we use them (LIP)
- Final round of questions
- Online quiz: T3-T6, Evaluation request and closure (LNEC)

For more information contact:

Anabela Oliveira aoliveira@lnec.pt The OPENCoastS service assembles on-demand circulation forecast systems for selected coastal areas and keeps them running operationally for a period defined by the user. This service generates daily forecasts of water levels and vertically averaged velocities over the region of interest for 48 hours, based on numerical simulations of the relevant physical processes.



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Configuration Assistant (1999)
See 1 Sec 2 See 3 Sec 4 Sec 5 Sec 6 Sec 7
Model Domain Boundaries Stations Parameters Additional Data Submission
Define Boundary Conditions
In this step the user has to define the forcing sources for the ocean, river and atmospheric boundaries from the available options.
Select one or more boundaries and define their type and forcing condition
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