

Estuaries: Challenges for present and future management

Final Workshop of the EsCo–Ensembles project, estuarine and coastal numerical modelling ensembles for anthropogenic, extreme events and climate change scenarios



EsCo–Ensembles

Temos o prazer de anunciar o Workshop final do projeto EsCo-Ensembles que irá decorrer no dia 28 de junho de 2022 no Auditorio Infante D. Henrique, Marina de Leça, Leça da Palmeira, Matosinhos, Portugal.

Trata-se de um evento organizado no âmbito do projeto de investigação EsCo-Ensembles, financiado pela FCT e desenvolvido pela Universidade do Porto (CIIMAR) e pela Universidade do Minho (CTAC).

No projeto EsCo-Ensembles foram desenvolvidas técnicas avançadas de modelação para melhorar previsões hidromorfodinâmicas em áreas estuarinas. Essas técnicas inovadoras foram aplicadas a dois estuários portugueses, os estuários do rio Douro e do rio Minho, para simular os seus estados atuais e futuros, incluindo situações de cheia e valores extremos do nível do mar para diferentes cenários de alterações climáticas.

O objetivo principal do Workshop é a criação de um ambiente multidisciplinar onde se possa ter uma visão abrangente dos desafios presentes e futuros para a gestão das áreas estuarinas. Serão apresentados os principais resultados obtidos no projeto e discutidas as suas implicações na gestão presente e futura destas massas de água.

A comissão organizadora

We are pleased to announce the final Workshop of the EsCo-Ensembles project that will take place on June 28, 2022, at APDL, Auditorio Infante D. Henrique, Marina de Leça, Leça da Palmeira, Matosinhos, Portugal.

This event is organized in the scope of the EsCo-Ensembles research project, funded by FCT and developed by the University of Porto (CIIMAR) and the University of Minho (CTAC).

In the EsCo-Ensembles project, advanced modelling techniques were developed to improve hydro-morphodynamic forecasts in estuaries. These methodologies were applied to two Portuguese estuaries, the Douro and Minho estuaries, to simulate their current and future states, including flood situations and extreme sea level conditions for different climate-change scenarios.

The main objective of the Workshop is the creation of a multidisciplinary environment where a comprehensive view of present and future challenges for the management of estuarine regions can be achieved. The main results of the project will be presented and their implications for the present and future management of these water bodies will be discussed.

The organising committee

Estuaries: Challenges for present and future management

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When: 28 June 2022

Where: APDL – Auditório Infante D. Henrique, Marina, Leça da Palmeira (41.188767°N, -8.704256°W)

Registration: Free but mandatory and limited to a maximum number of participants. Please, register at: <https://www.cognitofrms.com/AnaBio1/EstuariesChallengesForPresentAndFutureManagement>

EsCo–Ensembles

PROGRAMME

09:30–10:00h Welcome & registration

10:00–10:30h Opening session: Professor Veloso Gomes (Project Coordinator), Professor Rodrigo Ozorio (member of the CIIMAR board of directors), Professor Barroso de Aguiar (Director of the CTAC- Centre for Territory, Environment and Construction)

10:30–11:00h *Coffee break*

11:00–13:00h Session I

11:00–11:40h Estuarine management in a changing world – risks, challenges and opportunities – *Professor Mike Elliott (University of Hull and IECS Ltd, UK)*

11:40–12:00h EsCo-Ensembles project: objectives and methodologies – *Isabel Iglesias (CIIMAR)*

12:00–12:20h Hydro-morphodynamic surveys in the Minho and Douro estuaries – *Ana Bio (CIIMAR)*

12:20–12:40h Modelling the hydro-morphodynamics of the Minho and Douro estuaries – *José Pinho/Willian Melo (CTAC/University of Minho)*

12:40–13:00h MELOA Drifters: waves and surface current tracking in estuaries and adjacent areas – *José Paulo Pinto (IH)*

13:00–14:00h *Lunch*

14:00–16:00h Session II

14:00–14:40h Coastal protection service provided by vegetated ecosystems: analysis of flow-vegetation interaction – *Professor Maria Maza, University of Cantabria*

14:40–15:00h Estuaries in geological framework - some examples – *Helena Granja (CIIMAR)*

15:00–15:20h Anadromous fishery and water quality in the Mondego estuary: where is the link? – *Yorgos Stratoudakis (IPMA)*

15:20–15:40h The importance of long-term monitoring programs to detect changes in biological communities – *Martina Ilarri (CIIMAR)*

15:40–16:00h Water quality monitoring in the Douro estuary – *Isabel Costa (CIIMAR)*

16:00–16:30h *Coffee Break*

16:30–17:20h Round table discussion: Risks and challenges for the management of estuarine areas

- *Moderator: Fernando Veloso Gomes (CIIMAR/FEUP)*
- *Mike Elliott (University of Hull and IECS Ltd, UK)*
- *Maria Maza (University of Cantabria)*
- *Luísa Bastos (CIIMAR/FCUP)*
- *José Vieira (CTAC/UMinho)*
- *Carlos Antunes (CIIMAR/AquaMuseu do Minho)*
- *Helena Granja (CIIMAR)*
- *Yorgos Stratoudakis (IPMA)*

17:20h-17:30h Closing session – *Professor Veloso Gomes (Project coordinator)*