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European Regional Development Fund



EUROPEAN UNION

AdriaClim Seminar on Thursday 24 March 2022 at 14:30
at Aula Master, ground floor - Laboratori Sartori, Ravenna (Italy)

Speaker: Jacopo Alessandri, University of Bologna, Italy.

The seminar will be held online [here](#) .

Seminar Title:

The modelling of the Emilia-Romagna pilot area

Abstract:

In the framework of the AdriaClim project a coupled physics-biogeochemistry high resolution unstructured ocean model (namely ShyfER) will be developed for the Emilia-Romagna (ER) pilot area based on the SHY-MPI code (Micaletto et al., 2022). The maximum resolution of 300 m at the coast, and the capacity of the model to describe in details the complexity of the coastal geometry, allow to solve the small-scale coastal processes, very important for the local dynamics. ShyfER will be nested into a NEMO-BFM coupled model for the entire Adriatic Sea. I will show the characteristics of the ShyfER model implementation with output validation and results from a ten year simulation, highlighting the capacity of the model to correctly represents the main dynamical features of the circulation and the potential benefits of the numerical investigation to find possible solutions against storm surge events along ER coast.



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