

The LisOcean model, an operational model to provide coastal risks and environmental services co-designed with end-users for the Lisbon Metropolitan Area (Portugal).

Ocean Predict

The Lisbon Metropolitan Area (AML) is the most populous metropolitan area in the Portugal (NUTS III), with 2.8 million inhabitants. Its biggest cities, Lisbon and Setubal, are located on the sides of the Tagus and Sado estuaries respectively and its infrastructures and lines of communication are located near the coastline. The human uses in the AML coast includes important ports activities, leisure marinas, bivalve aquaculture production (mainly in the Sado estuary), tourist activities, industry poles along with international environmental protection designated areas. On the other hand, the region is subject to several threads such as flooding, erosion, heat waves and those related to marine traffic. Face to the above, an operational numerical model was implemented with the objective of aggregate the information collected/generated from different sources and to facilitate the sustainable development of the blue economy and anthropic activities that take place in the territory. The LisOcean model comprises c

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