



TITLE

Mapping the environmental risk of fishing ports

LAB & PEOPLE

- Name of the hosting lab: DCTMA, UAlg
- General activities of the lab:
Website: <https://www.ualg.pt/>
Number of staff / PhD:
- Supervisor name and contact: Maria C. Neves (mcneves@ualg.pt)

TOPIC OF THE INTERSHIP

- Scientific context of the internship

One consequence of the growing world population is the greater anthropogenic pressure on fishing activities including the need for additional resources and more sustainable strategies for harbor and waterfront management. Mapping the environmental risk of fishing ports involves identifying and evaluating the potential risks that harbors pose to water quality and air quality and then creating maps that show the locations and magnitudes of these risks. This research topic is in line with projects like the World Harbour Project (WHP), that use scientific evidence-based information to inform decision-makers, such as government agencies and harbor managers, to manage harbor and neighboring waterfronts in a way that protects the environment while also meeting economic and social goals.

Keywords: Harbor, Mapping Tool, environmental risk

Bibliography:

Aina G. Gómez, Paloma F. Valdor, Bárbara Ondiviela, Juan L. Díaz, José A. Juanes, Mapping the environmental risk assessment of marinas on water quality: The Atlas of the Spanish coast, *Marine Pollution Bulletin*, Volume 139, 2019, Pages 355-365, <https://doi.org/10.1016/j.marpolbul.2019.01.008>.

Bárbara Ondiviela, José A. Juanes, Aina G. Gómez, María L. Sámano, José A. Revilla, Methodological procedure for water quality management in port areas at the EU level, *Ecological Indicators*, Volume 13, Issue 1, 2012, Pages 117-128, <https://doi.org/10.1016/j.ecolind.2011.05.018>.

- Tasks and duties entrusted to the student:

Build a database with the main characteristics of the studied harbours. Identify, classify and map the parameters, indicators, metrics and criteria assessment to estimate environmental risk factor at each site.



2023 Master internship at University of Algarve



- Skills to be acquired or developed:

Data analysis and mapping using ArcGIS techniques.

PROFILE OF THE DESIRED STUDENT

- Minimum level of study required: bachelor's degree
- Field(s) of study: Marine sciences, Environmental sciences, Earth Sciences
- Scientific skills: Geographic Information System background
- Language skills required: English

THE INTERNSHIP ASSIGNMENT:

Desired duration of the internship (in months): 3 months

Desired Starting date of the mission:

Indicative weekly schedule: *35h / week*

Remuneration: *Not available*

Erasmus grant: Application should be made by the student at their institution.

Internship agreement: *an internship agreement will be signed.*

To SEA-EU students:

If you're interested please send your CV and letter of motivation to the scientist in charge, mcneves@ualg.pt