



H2020

TOOLS IMPLEMENTATION EXAMPLE



Where

Algarve, Portugal

Issue types(s)

Perception of aquaculture by stakeholders of the Algarve region. Effect of large yearly environmental differences affecting management of the activity

Specific Issue(s):

Aquaculture is a designated a priority activity by the Portuguese government; in the Algarve the focus is offshore for bivalve on longlines. Management of concessions is hampered by conflicts with other activities (fishing, shipping, tourism, conservation) and by large environmental differences from year to year, whereby for example, conditions may cause long periods of closure due toxins from Harmful Algal Blooms (HABS), or fluctuations in the settlement of natural bivalve spatCase study:

Case Study

Algarve Coast, Portugal

Objective(s):

Effective implementation of offshore aquaculture in government designated areas along the Algarve coast.

Tool(s):

Geographical Image Service (ArcGIS), Stakeholder analysis (EAF), Sentinel satellite images (SNAP).

How tool(s) has/have been implemented

Figure 1 shows the government designation of areas for aquaculture based on their use of ArcGIS. Our stakeholder analysis is based on EAF and has focused on users of these designated areas, as well as other stakeholders from the Algarve region. The analysis of satellites images processed by SNAP are related to specific concerns that stakeholders have with closure of bivalve trading due to HABS and failures in natural recruitment of bivalve spat for culturing on the long lines.

Results:

We have processed satellite images to compare maps for chlorophyll and temperature conditions between periods of low and high upwelling. We have then considered how these differences may have affected HABS and bivalve spat recruitment.



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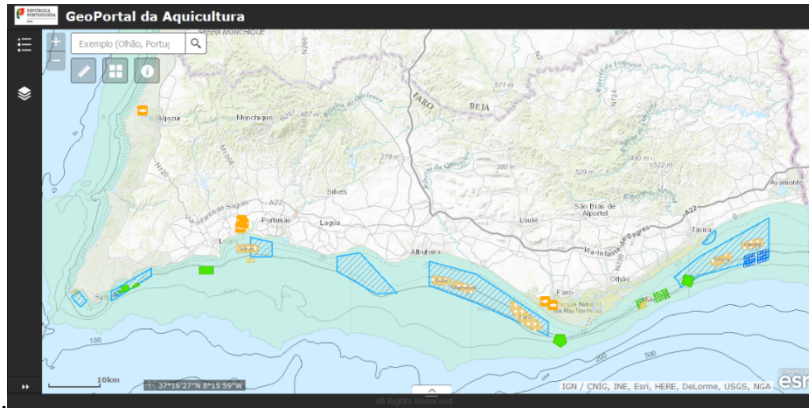


Fig. 1. Map of areas designated (green outline) for shellfish farming.

Links:

Portuguese national website for aquaculture spatial mapping:
eaquicultura.pt/category/mapas-online/

AquaSpace D4.2 at aquaspace-h2020.eu on Library/Reports page

The information in this fact-sheet has been assembled as part of Milestone 20 (WP5) of the AquaSpace project (Ecosystem Approach to making Space for Aquaculture, aquaspace-h2020.eu, which has received funding from the European Union's Horizon 2020 Framework Programme for Research and Innovation under grant agreement n° 633476.

Cite as:

Sagremarisco Lda. (2017) Shellfish culture in Algarve, Portugal.
Implementation factsheet from Aquaspace toolbox. aquaspace-h2020.eu/