Training on the use of geographic information system in the establishment of allocated zones for aquaculture

Provisional agenda

Online, 14-15 April 2025

Monday 14 April

10:00-12:00 (CET)

Introduction and course overview

- Presentation of the course
- Marine spatial planning framework
- Allocated zones for aquaculture: concept, implementation phases and parameters
- Geographic Information system (GIS): definition, basic concepts, software and application

Part 1: Learning how to use QGIS (open source) – QGIS interface

- Interface overview
- Information layers
- Hands-on session: Creating and uploading layers

Part 2: Learning how to use QGIS (open source) – Coordinate reference system (CRS)

- Geographic vs projected coordinate systems
- Hands-on session: changing the CRS of a layer (projecting and transforming data)

14:00-16:00 (CET)

Part 3: Generating spatial information

- Processing vector data.
- Hands-on session: (1) editing an attribute table; (2) using the digitizing process to trace objects from remote sensing data

Part 4: Planning for aquaculture

- Degree of compatibility: identification of parameters, suitability index and weighting factors
- Assigning suitable parameter ranges for finfish farming and for inland sites

Part 4 (cont.): Planning for aquaculture

− Exclusion criteria
− Hands-on session: mapping criteria and constraints in QGIS
− Criteria, weighting factors and suitability index estimation in QGIS

Part 5: Creating maps

− Layout and item properties
− Graphic elements and output creation
− Hands-on session: generating a map with QGIS