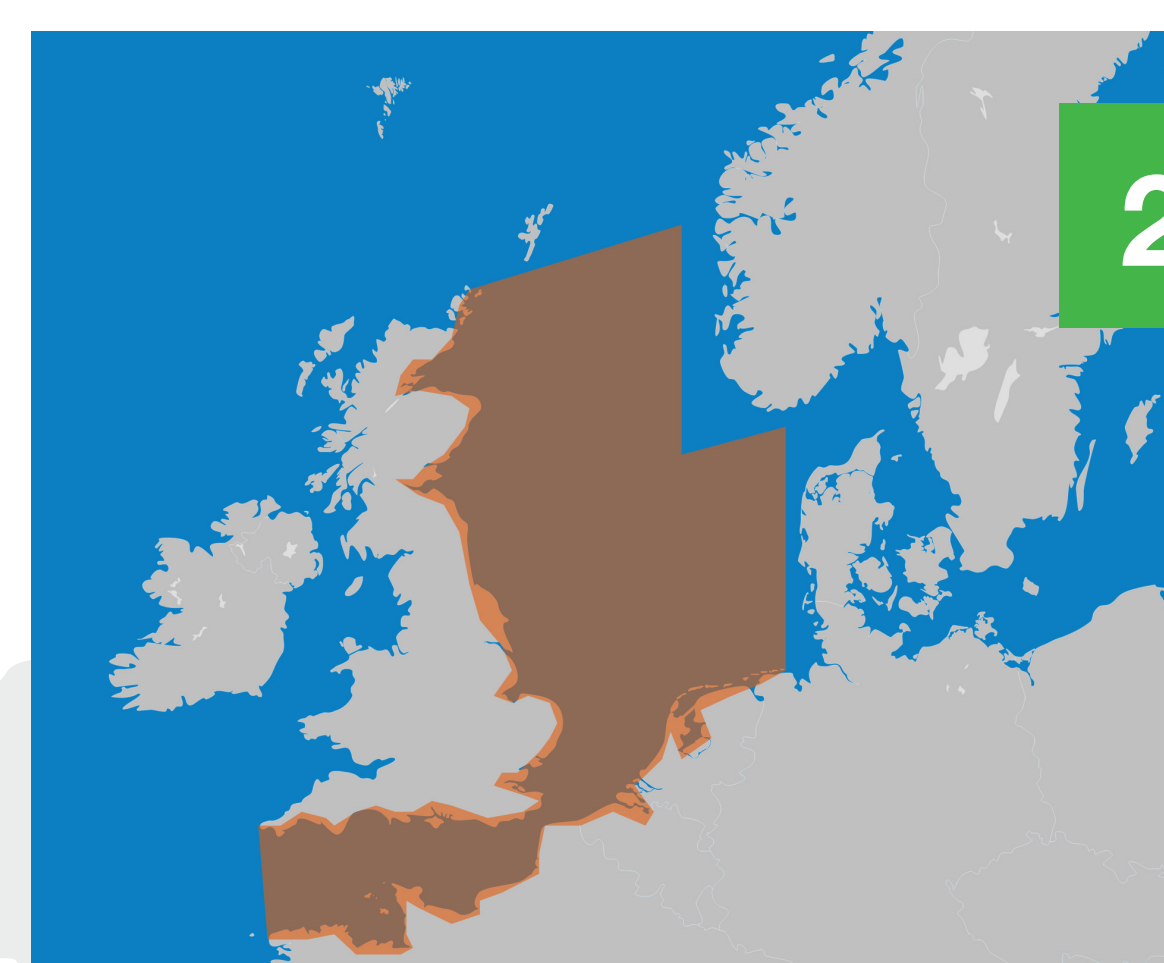


# Pilot Supersite Highlights



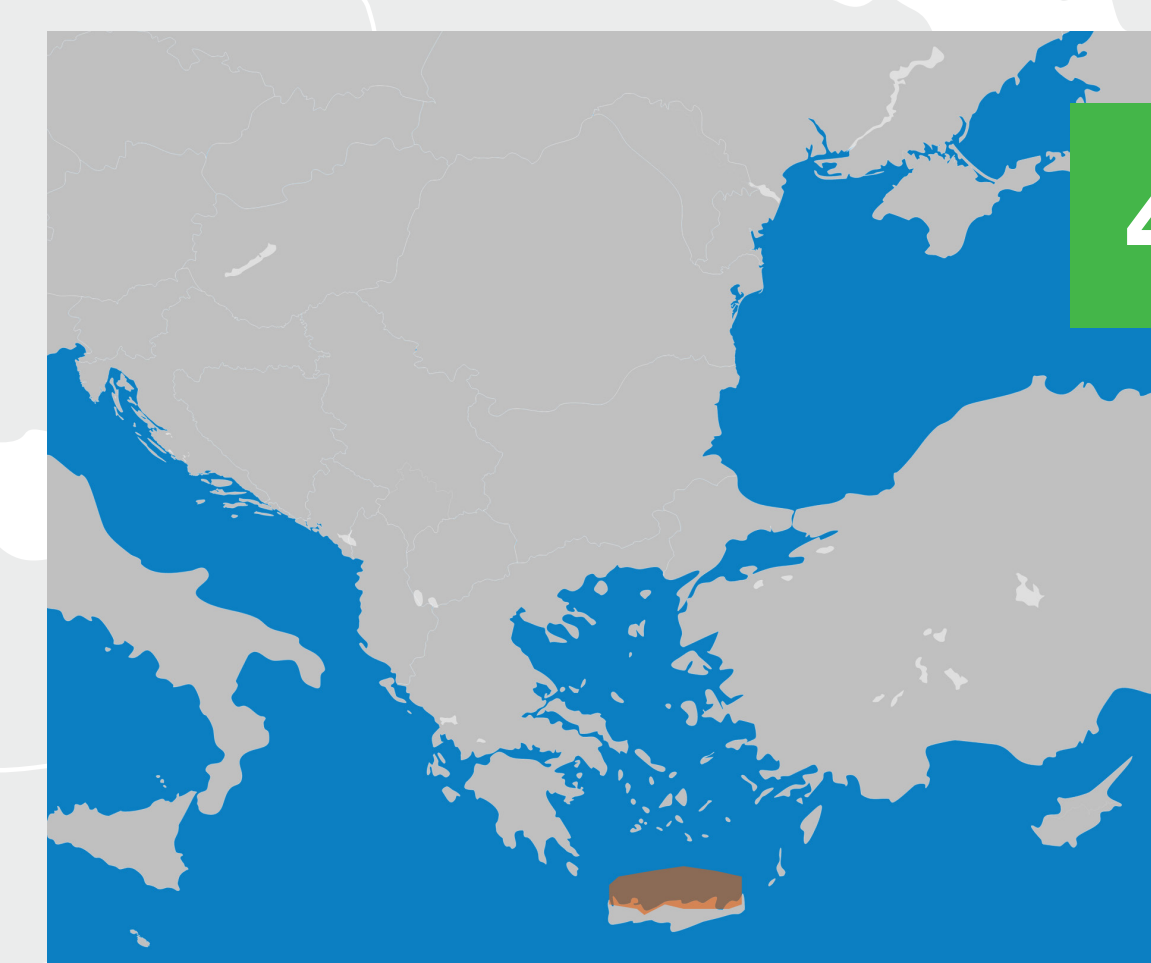
1.



2.



3.



4.

## 1. Gulf of Finland PSS

- WSs for optical sensor calibration, sharing workload in sensor calibration and testing
- WSs for technical and QC harmonisation of observations
- Meetings in planning joint multiplatform missions
- Meetings to share experiences in use of platforms
- Dataflows/visualisations for multiplatform HAB detection
- BGC data collection for modelling purposes
- Joint analysis of carbonate datasets
- Communication to regional management and other users

## 2. North Sea & English Channel PSS

- Towards a real multiplatform in situ approach, coupled with modelling and EO products, from the sensors/raw data to the results, through harmonized/optimized tools and products.
- Beyond our capacity to answer Key Scientific Challenges, real possibility of contribution to EU Directive and Regional Sea Convention needs, from the design of the monitoring programmes to the assessment (Eutrophication, Pelagic Habitats, Food Webs).
- Examples of applied extensive quality control procedures
- The Helgoland Underwater Observatory (HUWO) equipped with a CPICS plankton and particle imager as well as CTD, oxygen sensor and ADCP, is now fully operational.
- Specific cruises into Norwegian Fjords, the English Channel with implementation of different in-situ and benchtop imaging instruments: comparisons of results, harmonisation of data outputs, self-developed imaging systems (based on Machine Learning).
- Beginning of the integration of new sensors on the instrumented station MAREL Carnot (flow cytometer, AOA, WIZ, pCO<sub>2</sub>) using the smart multisensor marine observation platform Costof2 (core of the EMSO Generic Instrumentation Module (EGIM)). Closely link to IR ILICO COAST-HF.

## 3. North Western Mediterranean PSS

- Integration of multiplatform observations into high resolution model WMOP (altimetry, SST, Argo, radars, moorings and gliders) for North Current transport and particles dispersion
- Experiment connected to observation: large mesocosm experimentation in order to highlight "Marine plankton community responses to terrestrial dissolved organic matter input". Impact of terrestrial OC on BGC and phytoplankton species.
- First collaboration AQUACOSM-plus & JERICO-s3
- Joint cruise in September 2021 in front of the Ebro delta between CNRS France, CSIC, PdE
- Demonstration action of glider deployment in front the Ebro delta a challenging area with a lot of traffic!
- Comparison / Validation of surface current from HF Radar (PdE) and Glider-ADCP (CNRS)
- Impact of river inputs to the coastal area (link biogeochemical glider data and satellite data)

## 4. Cretan Sea PSS

- Dataset submission to SOCAT,
- Participation in ICOS WS 2021
- Presentation to the SOLAS community (Ocean Carbon from Space)
- Interaction with scientists outside JS3 working on pH and CO<sub>2</sub>
- Interaction with SOCAT, ICOS, SOLAS, ACTRIS
- Meetings for practices for phyto sensors
- Exchange of sensors between partners for calibration and tests in field, lab, mesocosm
- Meetings for preparation of participation in mesocosm experiment (AQUACOSM-JERICO-S3)
- Participation in WSs for optical sensor calibration
- Participation in GoF PSS Algaline fluorometer sensor harmonization workshop in 2021 and 2022.
- WS during TA for transfer of knowledge on new PP technology tools between PSS partners (TA, LabSTAF, Chelsea Technologies)
- TA post in JS3 and POSEIDON website



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