

AIMS AND APPROACH

CoastObs aims at setting up user-relevant and marketable EO-based information products and services. To ensure user uptake of our services we work in an iterative process with our users to our product and system development with their requirements. An important aspect is to lower cost of production by setting up a highly automated information production system using innovative data cube technology and targeting a user base with overlapping interests.



CASE STUDIES



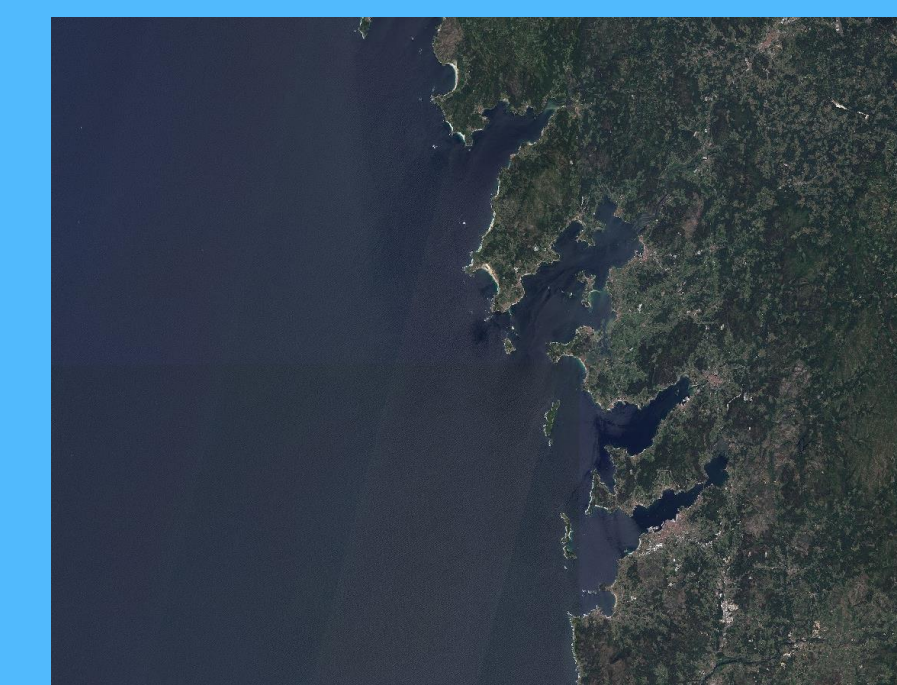
Dutch coast
 Food availability for mussels
 Environmental / turbidity monitoring
 Coastal dynamics



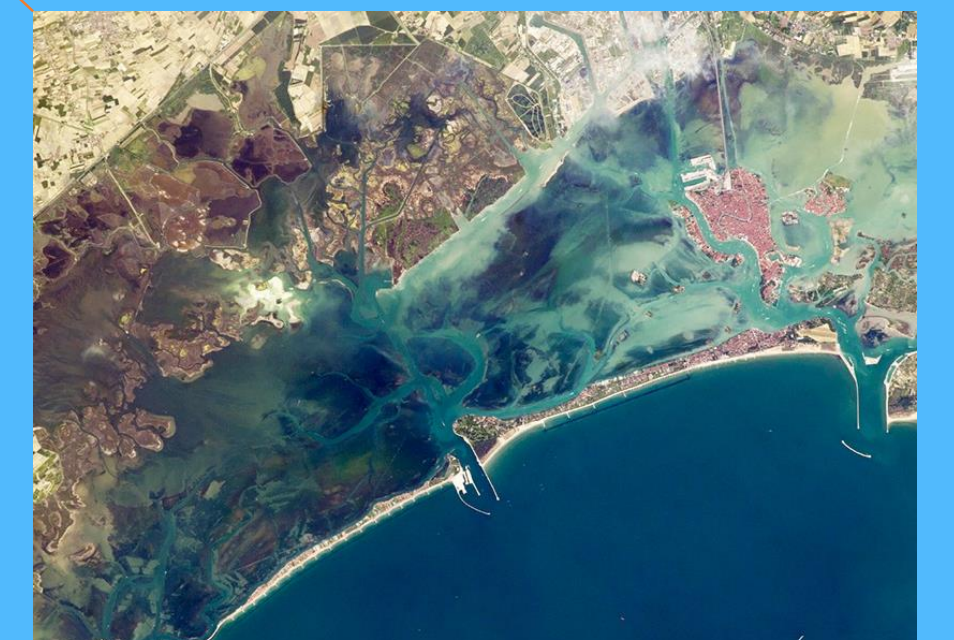
South Brittany
 Intertidal macrophytes
 Submerged seagrass
 WFD reporting
 Sediment plumes



Adriatic coast
 Submerged macrophytes
 Morphodynamics, coastal erosion & accretion
 Environmental monitoring



Galicia
 Monitoring, forecast & early warning of harmful algae blooms (Pseudo-nitzschia spp)



PRODUCTS AND SERVICES

Standard Products

- Chlorophyll-a
- Total suspended matter, turbidity
- Phycocyanin, Coloured dissolved organic matter
- Sea surface temperature

Innovative Products

- Seagrass, macro algae
- Phytoplankton size classes
- Harmful/indicator algae species
- Phytoplankton primary production

Higher level products

- Statistics/aggregation
- Indicators for water framework directive reporting
- Harmful algal blooms forecast
- Shellfish culture potential



Near real-time service
 Harmful algae bloom warning for aquaculture industry
 Turbidity threshold monitoring for dredging



Periodic reporting service
 Water Framework Directive reporting
 Monitoring of trends (e.g. eutrophication, carrying capacity)



One-off analysis
 Spatial suitability analysis
 Source identification
 Long-term coastal erosion & accretion analysis

CONSORTIUM