

Implementation of EO in mapping and monitoring of coastal and marine habitats

•**Users:** National environmental and nature protection Agencies and Ministries, NGOs, General public...

•**Challenge:** Utilisation of EO capabilities in mapping and monitoring highly complex infralitoral benthic marine habitats.

•**Initiative:** Methodology developed during the creation of the official national marine habitat map of Croatia. Results is a comprehensive map of marine habitats that provides a detailed insight into the distribution of species and habitats and is a key tool for the conservation and sustainable use of the Adriatic Sea

•**Results:** New and highly functional and robust approach to mapping infralitoral habitat types developed by fusion of several cutting-edge technologies of EO data processing, GIS analytics, Spatial Modeling and Machine Learning algorithms.

•**Service provider:** Oikon d.o.o. – Institute of Applied Ecology (cooperation with the Institute of Oceanography and Fisheries, Croatian Geological Institute, Faculty of Geodesy of the University of Zagreb and the Ruđer Bošković Institutet)

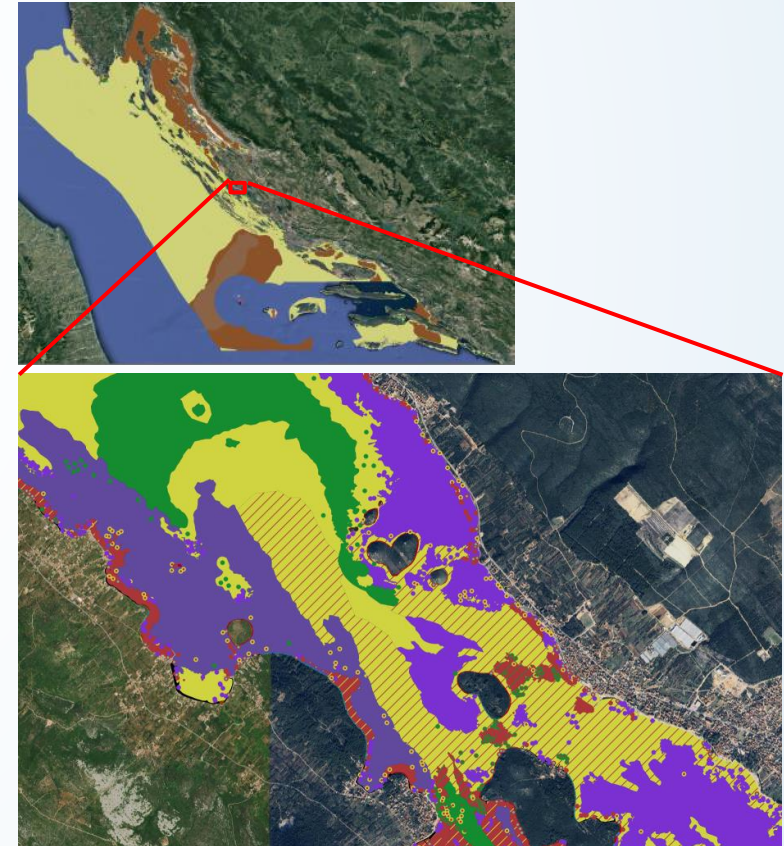
•**References:**

<https://www.bioportal.hr/gis/>

<https://oikon.hr/the-national-map-of-marine-habitats-launched//>

<https://spacewatch.global/2024/01/ior-launches-national-map-of-marine-habitats-in-croatia>

Target 14.2: Protect and restore ecosystems; Target 14.4: Sustainable fishing; Target 14.5: Conserve coastal and marine areas, Target 14.7: Increase the economic benefits from sustainable use of marine resources; Target 14.a: Increase scientific knowledge, research and technology for ocean health; Target 14.c: Implement and enforce international sea law



Segment of the Marine Habitat map created from EO data 1

