CO-EVOLVE

Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal and maritime tourism

FACTSHEET #3.8.2

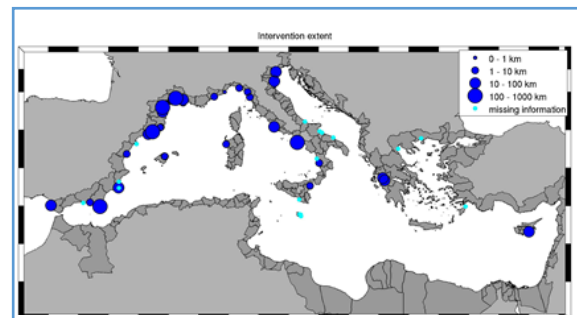# Mapping coastal protection in Mediterranean touristic areas
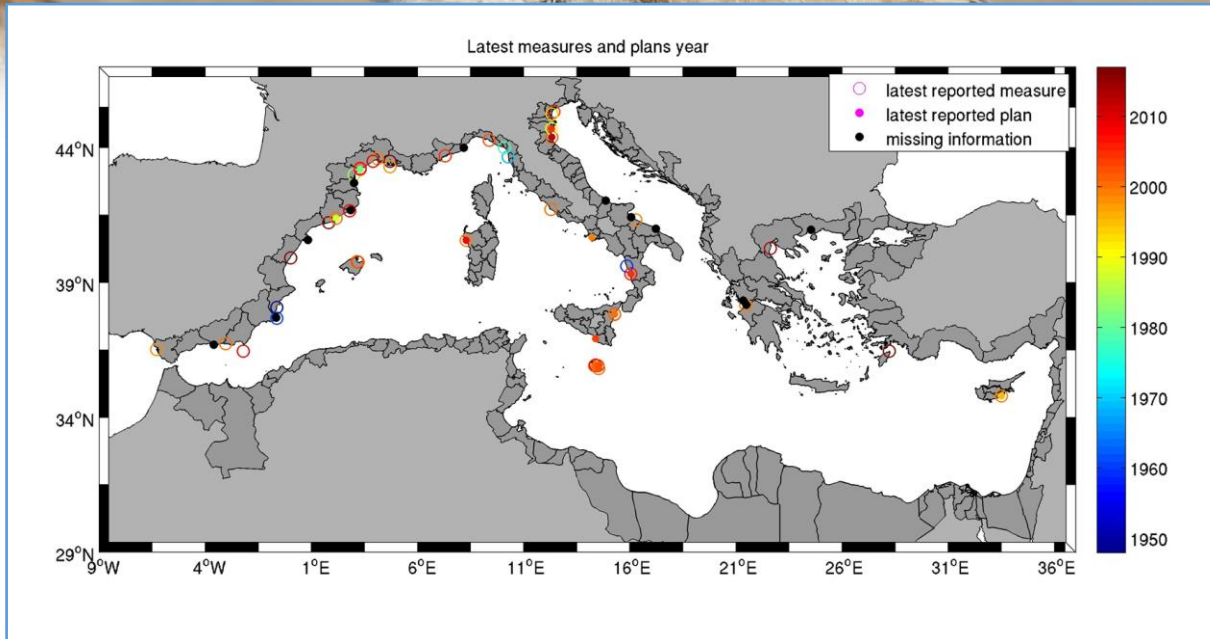
SUMMARY:

In this task, the Institute of Marine Sciences of the National Research Council (CNR-ISMAR, Italy) organised and summarised into a set of thematic maps the data and information collected in CO-EVOLVE's 'Review and analysis of coastal protection planning and management in touristic areas' (Deliverable 3.8.1) through the reviews of scientific and technical papers, including the state of art of coastal protection plans and the description of representative case studies.

The Thematic Atlas on coastal protection plans and measures reports all the available information collected in the framework of Deliverable 3.8.1 in terms of:

- Geographic data (coordinates, Country, NUTS III region);
- Coastal protection features (study area, extent, type, years of implementation, aim, effects);
- Hydrodynamic characteristics (wind, waves and tides regime, currents);
- Management features (type and years of the implemented plans);
- Bibliographic references (bibliographic item, authors, journal, year).

In reviewing the coastal protection techniques, the CNR-ISMAR considered hard (e.g. groynes, breakwaters, seawalls, revetments) and soft (such as nourishments, sand by-pass, beach drainages, dune stabilisations, seagrass meadow planting) solutions, focusing on their design aspects and on their impacts on environment and socio-economic activities connected to the development of a sustainable tourism.

Latest measures and plans year

The set of maps provides a most effective visual tool for a prompt identification of the geographical distribution of the implemented coastal protection initiatives and their outcomes.

The structure of the database underlying the Thematic Atlas and the map generation procedure, based on MATLAB routines, allow for a straightforward update of the products as further items are added, providing the possibility of updating and expanding the information to be visualised.

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