



How to monitor the Ocean with IN-SITU observations

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Inspire Area – European Digital Ocean Pavilion

United Nations Ocean Conference 2025

Abstract

Horizon 2020 NAUTILOS – (New Approach to Underwater Technologies for Innovative, Low-cost Ocean observation)

Antonio Novellino (on behalf of Rachele Bordoni) – ETT S.p.A.

Low cost sensors that can be installed on citizen boats-Presentation of the Horizon 2020 NAUTILOS (New Approach to Underwater Technologies for Innovative, Low-cost Ocean observation) project, that aims to fill the gaps in marine observation and modelling for essential ocean variables and to answer to some indicators of the MSFD. It develops and deploys small low-cost in situ sensors, improves existing ones with innovative solutions, and integrates them with observation platforms across European seas to explore uncharted areas (increasing spatial resolution and filling temporal gaps). It also improves the use of data in predictive models to generate more accurate projections. NAUTILOS develops solutions targeted at both the research community and civil society, implementing data collection campaigns involving citizens.

