



Technologies to measure the ocean state:

EuroGOOS showcase

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EuroGOOS
European Global Ocean
Observing System

Good quality measurements of physical (e.g. sea level and currents) and biogeochemical (e.g. dissolved oxygen and nutrients) variables are the basis for our understanding of the ocean processes affecting many human activities at sea (e.g. coastal management, fisheries, search and rescue operations). These measurements can be made by different types of platforms.

At this meeting, EuroGOOS task teams will present three examples of mature technologies delivering observations of a wide range of ocean variables at different spatial and temporal coverage, as well as their strengths and challenges.

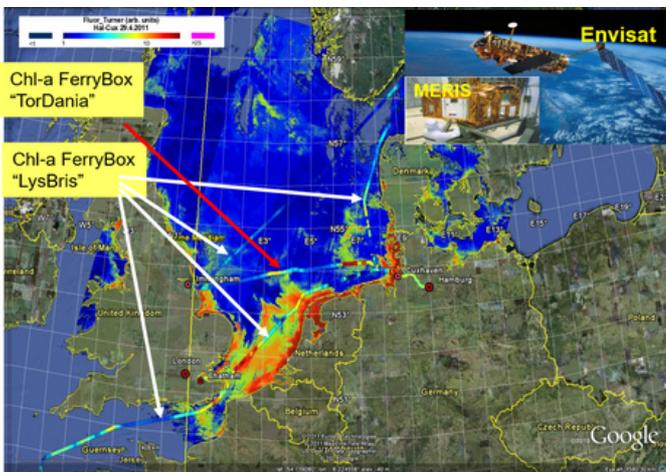


High Frequency Radars is a unique technology measuring surface ocean currents up to 100 km from the coast which can be used in several applications such as oil spill forecasting or search and rescue operations.

Julien Mader, Chair, EuroGOOS HFR Task Team

Tide Gauges is a sea level observing technology providing accurate information on the sea level, essential for harbor operations, tsunami detection, and quantifying sea level rise.

Begoña Pérez Gómez, Chair, EuroGOOS TG Task Team



Ferry Boxes are autonomous sensor packages making bio-geochemical measurements on ships of opportunity (passenger ferries and container ships) providing a quantitative view of environmental conditions in waters where they operate.

Wilhelm Petersen, Chair, EuroGOOS FB Task Team

EuroGOOS task teams for these observing platforms advance the coordination of technology, science, data formats and data integration at the European level. Together with other complementary operational observing technologies, a well-coordinated observing network will form the basis of a truly sustained, integrated and fit-for-purpose European Ocean Observing System (EOOS).

Top image: Tide Gauge station in Stockholm measuring from 1889, photo: Thomas Hammacklint, The Swedish Maritime Administration

Bottom image: Combination of Chlorophyll-a satellite observations with FerryBox data

European Global Ocean Observing System, EuroGOOS, identifies priorities, enhances cooperation and promotes the benefits of operational oceanography to ensure sustained observations are made in Europe's seas underpinning a suite of fit-for-purpose products and services for marine and maritime end-users.