



## **Knowledge base for growth and innovation in ocean economy: assembly and dissemination of marine data for seabed mapping – European Marine Observation Data Network - EMODnet Physics**

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The Physics preparatory action (MARE/2010/02 - Lot [SI2.579120]) had the overall objectives to provide access to archived and near real-time data on physical conditions as monitored by fixed stations and Ferrybox lines in all the European sea basins and oceans and to determine how well the data meet the needs of users.

The existing EMODnet-Physics portal, [www.emodnet-physics.eu](http://www.emodnet-physics.eu), includes systems for physical data from the whole Europe (wave height and period, temperature of the water column, wind speed and direction, salinity of the water column, horizontal velocity of the water column, light attenuation, and sea level) provided mainly by fixed stations and ferry-box platforms, discovering related data sets (both near real time and historical data sets), viewing and downloading of the data from about 470 platforms across the European Sea basins.

It makes layers of physical data and their metadata available for use and contributes towards the definition of an operational European Marine Observation and Data Network (EMODnet). It is based on a strong collaboration between EuroGOOS member institutes and its regional operational oceanographic systems (ROOSs), and it brings together two marine, but different, communities : the “real time” ocean observing institutes and centers and the National Oceanographic Data Centres (NODCs) that are in charge for archived ocean data validation, quality check and continuous update of data archives for marine environmental monitoring.

EMODnet Physics is a Marine Observation and Data Information System that provides a single point of access to near real time and historical achieved data, it is built on existing infrastructure by adding value and avoiding any unnecessary complexity, it provides data access to any relevant user, and is aimed at attracting new data holders and providing better and more data. With a long term-vision for a sustained pan European Ocean Observation System EMODnet Physics is supporting the coordination of the EuroGOOS ROOSs and the empowerment and improvement of their observing and data management infrastructure.

The on-going EMODnet Physics preparatory action has recently been extended (MARE/2012/06 - Lot 6) with the aim to enlarge the coverage with additional monitoring systems (e.g. Argos, Gliders, HF Radars etc) and products and strengthening the underlying infrastructure.

The presentation will show how to exploit the EMODnet portal and access to the metadata and data of connected platforms.