



European Marine Observation and DataNetwork (EMODNET)– physical parameters: A support to marine science and operational oceanography

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The overall objectives of EMODNET – physical parameters is to provide access to archived and real-time data on physical conditions in Europe's seas and oceans and to determine how well the data meet the needs of users. In particular it will contribute towards the definition of an operational European Marine Observation and Data Network (EMODnet) and contribute to developing the definition of the Global Monitoring for Environment and Security (GMES) marine core service.

Access to data and metadata will consider measurements from fixed stations that will cover at least:

1. wave height and period;
2. temperature of the water column;
3. wind speed and direction;
4. salinity of the water column;
5. horizontal velocity of the water column ;
6. light attenuation;
7. sea level.

A first running prototype of the portal active from the end of 2011, the final release of the EMODnet PP is due by half June 2012. Then there are 6 months for testing and users' feedback acquisition and management. The project finishes 16th December 2013 after one year of maintenance. Compliance with INSPIRE framework and temporal and geographical data coverage are ensured under the requirements contained in the several Commission Regulations issued from 2008 until 2010. The metadata are based upon the ISO 19115 standard and are compliant with the INSPIRE directive and regulations. This assures also a minimum metadata content in both systems that will facilitate the setting up of a portal that can provide information on data and access to them, depending on the internal data policy of potential contributors.

Data coverage: There are three pillars sustaining EMODnet PP: EuroGOOS ROOSs (the EuroGOOS regional Operational Systems), MyOcean and SeaDataNet. MyOcean and EuroGOOS have agreed in EuroGOOS general assemblies (2008-2009-2010) to share their efforts to set up a common infrastructure for real-time data integration for operational oceanography needs extending the global and regional portals set up by MyOcean to handle additional variables and observation providers. SeaDataNet is a Pan-European infrastructure for oceans and marine data management, that provides access to archived data residing in distributed information systems.

EMODNet Physics held three workshops with institutions working in operational data collection in the Baltin, North Sea, East Atlantic, Mediterranean and Black Sea. They allowed to list most of the existing fixed stations in the seas of European interest. The workshops and the follow up are constructing a common collaborative framework within EuroGOOS ROOSs. Behind the ROOSs there is a wide number of institutions, scientists and technicians, whose participation to EMODnet PP will be acknowledged and made visible through the web pages, newsletters, and EuroGOOS publications. This common collaborative framework is producing an important network of data centres that can support GMES for the years to come.