



EMODnet Physics in the EMODnet program phase 3

Antonio Novellino (1), Patrick Gorringer (2), Dick Schaap (3), Sylvie Pouliquen (4), Lesley Rickards (5), Peter Thijsse (3), and Giuseppe Manzella (1)

(1) ETT, Genova, Italy (antonio.novellino@ettsolutions.com), (2) EuroGOOS, Brussels, Belgium, (3) Maris, Voorburg, The Netherlands, (4) Ifremer, Brest, France, (5) BODC NERC, Liverpool, UK

Access to marine data is of vital importance for marine research and a key issue for various studies, from climate change prediction to off shore engineering. Giving access to and harmonising marine data from different sources will help industry, public authorities and researchers find the data and make more effective use of them to develop new products, services and improve our understanding of how the seas behave. The aim of EMODnet Physics is the provision of a combined array of services and functionalities (facility for viewing and downloading, dashboard reporting and machine-to-machine communication services) to obtain, free of charge data, meta-data and data products on the physical conditions of European sea basins and oceans from many different distributed data bases. Moreover, the system provides full interoperability with third-party software through WMS services, Web Services and Web catalogues in order to exchange data and products according to the most recent standards. This assures to the user, the access to data having same quality and formats. The portal is providing access to data and products of: wave height and period; temperature and salinity of the water column; wind speed and direction; horizontal velocity of the water column; light attenuation; sea ice coverage and sea level trends. EMODnet Physics is continuously enhancing the number and type of platforms in the system by unlocking and providing high quality data from a growing network. Nowadays the system does integrate information by more than 12.000 stations and is including two ready-to-use data products: Ice Map and Sea Level Trends. The final aim of EMODnet Physics is to confederate different portals and be a portal of portal to further extend the number and type of data (e.g. water noise, river data, etc.) and platforms (e.g. animal bourne instruments, etc) feeding the system; improve the capacity of the system producing data and products that could match the market needs of the current and potential new end and intermediate users.