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AtlantOS WP2, Enhancement of ship-based observing networks - Bathymetric integration and visualization of Europe's data holdings

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The European Horizon 2020 research and innovation project AtlantOS - Optimising and Enhancing the Integrated Atlantic Ocean Observing Systems - aims to improve the present-day ocean observing activities in the Atlantic Ocean by establishing a sustainable, efficient and integrated Atlantic Ocean Observing System. 62 partners from 18 countries are working on solutions I) to improve international collaboration in the design, implementation and benefit sharing of ocean observing, II) to promote engagement and innovation in all aspects of ocean observing, III) to facilitate free and open access to ocean data and information, IV) to enable and disseminate methods of achieving quality and authority of ocean information, V) to strengthen the Global Ocean Observing System (GOOS) and to sustain observing systems that are critical for the Copernicus Marine Environment Monitoring Service and its applications and VI) to contribute to the aims of the Galway Statement on Atlantic Ocean Cooperation.

The Work Package 2 of the AtlantOS project focuses on improving, expanding, integrating and innovating ship-based observations. One of the tasks is the provision of Europe's existing and future bathymetric data sets from the Atlantic Ocean in accessible formats enabling easy processing and visualization for stakeholders. Furthermore, a new concept has recently been implemented, where three large German research vessels continuously collect bathymetric data during their transits. All data sets are gathered and processed with the help of national data centers and partner institutions and integrated into existing open access data systems, such as Pangaea in Germany, EMODnet at European level and GMRT (Global Multi-Resolution Topography synthesis) at international level. The processed data will be linked to the original data holdings, that can easily be accessed if required.

The overall aim of this task is to make bathymetric data publicly available for specialists and non-specialists both through specific map products, but also by linking to the original data sets. The availability of bathymetric information will in many cases enable a more holistic approach to marine issues and avoid duplication of effort. Enhancing our knowledge about the world's oceans is accompanied by increasing cooperation between scientists and inclusion of data across various disciplines.