Geophysical Research Abstracts Vol. 19, EGU2017-8690, 2017 EGU General Assembly 2017 © Author(s) 2017. CC Attribution 3.0 License.



Optimizing and Enhancing the Integrated Atlantic Ocean Observing System to enhance the societal, scientific and economic benefit

Anja Reitz, Johannes Karstensen, Martin Visbeck, and the AtlantOS consortium GEOMAR Helmholtz Centre for Ocean Research Kiel, Physical Oceanography, Kiel, Germany (areitz@geomar.de)

Atlantic Ocean observation is currently undertaken through loosely-coordinated, in-situ observing networks, satellite observations and data management arrangements of heterogeneous international, national and regional design to support science and a wide range of information products. Thus there is tremendous opportunity to develop the systems towards a fully integrated Atlantic Ocean Observing System consistent with the recently developed 'Framework of Ocean Observing'.

The vision of AtlantOS is to improve and innovate Atlantic Ocean observing by establishing an international, more sustainable, more efficient, more integrated, and fit-for-purpose system. Hence, the EU Horizon 2020 project AtlantOS with its 62 partners from 18 countries (European and international) and several members will have a long-lasting and sustainable contribution to the societal, economic and scientific benefit by supporting the full cycle of the integrated ocean observation value chain from requirements via data gathering and observation, product generation, information, prediction, dissemination and stakeholder dialogue towards information and product provision. The benefits will be delivered by improving the value for money, extent, completeness, quality and ease of access to Atlantic Ocean data required by industries, product supplying agencies, scientist and citizens. The overarching target of the AtlantOS initiative is to deliver an advanced framework for the development of an integrated Atlantic Ocean Observing System that goes beyond the state-of -the-art, and leaves a legacy of sustainability after the life of the project. The legacy will derive from the following aims: 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), the Blue Planet initiative within the Group on Earth Observations (GEO) and to sustain the Copernicus Marine Environment Monitoring Service and its applications and vi) to contribute to the aims of the Galway Statement on Atlantic Ocean Cooperation.