

**Recovery and homogenization of marine chemical data from IEO systematic monitoring programs**

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## Abstract

In the framework of the project for European Marine Observation and Data Network (EMODNET, chemistry lot, DGMARE/2012/10), the Instituto Español de Oceanografía (IEO) has made an important effort in order to recover, homogenize and validate all the dissolved oxygen, nutrients and pollutant datasets from the different systematic monitoring programs that the institution has been supporting over time.

The main objective of these programs is monitoring the ocean variability at different time scales, from seasonal to interannual ones. Although most measurements were performed on coastal areas (RADIALES, Stoca, RadMed), RaProCan (Canary Deep Oceanic Section) and RadProf (Deep Sections on the North Iberian region), reach deep ocean layers and provide us with valuable information about the behavior of deep water masses and circulation.

Depending on the areas, the datasets can be extended more than 2 decades (RADIALES sections) or must be considered the beginning of a time series regional program (Stoca sections in Gulf of Cadiz). All data were obtained from laboratory analysis of discrete water samples from oceanographic casts, and sediment or biota samples in case of pollutants. Corrected and standardized data has been completely metadated and incorporated to the IEO DataCenter permanent archive. This supports the accessibility and reutilization of data and information and gives them an added value. Also, the IEO as part of SeaDataNet European consortium disseminates all the metadata information thorough the web portal [www.seadatanet.org](http://www.seadatanet.org). In addition this infrastructure allows traceable data access when the requirements are fulfilled.