

## Measuring spatio - temporal variability of chemical seawater parameters around the Spanish coasts.

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Dr. Elena TEL ,elena.tel@ieo.es ,(Researcher) ,Spain ,Madrid ,Not Presenting<sup>1</sup>

Dr. Marta ALVAREZ ,marta.alvarez@co.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Dr. Antonio BODE ,antonio.bode@md.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Ms. Agueda CABRERO ,agueda.cabrero@vi.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Ms. Irene CHAMARRO ,irene.chamarro@md.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Mrs. M Carmen GARCIA-MARTINEZ ,mcarmen.garcia@ma.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Mrs. Carmen RODRIGUEZ ,carmen@st.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Dr. Pedro VELEZ-BELCHI ,pedro.velez@ca.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

Ms. Amaia VILORIA ,amaia.viloria@st.ieo.es ,(None) ,Spain , ,Not Presenting<sup>1</sup>

1 - Instituto Espanol de Oceanografia (IEO) 2 - Instituto Espanol de Oceanografia (IEO) 3 - Instituto Espanol de Oceanografia (IEO) 4 - Instituto Espanol de Oceanografia (IEO) 5 - Instituto Espanol de Oceanografia (IEO) 6 - Instituto Espanol de Oceanografia (IEO) 7 - Instituto Espanol de Oceanografia (IEO) 8 - Instituto Espanol de Oceanografia (IEO) 9 - Instituto Espanol de Oceanografia (IEO)

The hydrographic standard sections, supported by various projects of the Instituto Espanol de Oceanografia Observing System (IEOOS) since the beginning of the 90's, include the collection of discrete sea water samples in Spanish waters. Samples are analyzed in the laboratory in order to determinate dissolved O<sub>2</sub> and nutrient as well as chlorophyll concentrations. The main objectives of these IEOOS coastal monitoring projects (Radiales, RadMed, Stoca), and deep water ones (RadPRof, RaProCan) is the measurement of the ocean variability at different time scales, from seasonal to interannual ones, and to investigate their dynamics.

An important effort to recover, homogenize and validate the whole sets has been performed to fulfill the requirements of international initiatives, such as the European Marine Observation and Data Network (EMODNET) and the Marine Strategy Directive Framework (MSDF). The permanent activity of the IEO datacenter assesses the accessibility and reuse of these data, giving them added value. Averaged vertical profiles and statistical values are a useful tool for modelers and to validate future 'in situ' and model data and to assess environmental changes. The resulting time series at different