Services for Emodnet-Chemistry Data Products

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In the framework of Emodnet Chemistry lot, data products from regional leaders were made available in order to transform information into a database. This has been done by using functions and scripts, reading so-called enriched ODV files and inserting data directly into a cloud relational geodatabase. The main table is the one of observations which contains the main data and meta-data associated with the enriched ODV files. A particular implementation in data loading is used in order to improve on-the-fly computational speed. Data from Baltic Sea, North Sea, Mediterranean, Black Sea and part of the Atlantic region has been entered into the geodatabase, and consequently being instantly available from the OceanBrowser Emodnet portal. Furthermore, Deltares has developed an application that provides additional visualisation services for the aggregated and validated data collections.

The visualisations are produced by making use of part of the OpenEarthTool stack (http://www.openearth.eu), by the integration of Web Feature Services and by the implementation of Web Processing Services. The goal is the generation of server-side plots of timeseries, profiles, timeprofiles and maps of selected parameters from data sets of selected stations.

Regional data collections are retrieved using Emodnet Chemistry cloud relational geo-database. The spatial resolution in time and the intensity of data availability for selected parameters is shown using Web Service requests via the OceanBrowser Emodnet Web portal. OceanBrowser also shows station reference codes, which are used to establish a link for additional metadata, further data shopping and download.