Geophysical Research Abstracts Vol. 17, EGU2015-5792, 2015 EGU General Assembly 2015 © Author(s) 2015. CC Attribution 3.0 License.



## Web-based visualization of gridded dataset usings OceanBrowser

Alexander Barth (1), Sylvain Watelet (1), Charles Troupin (2,1), and Jean-Marie Beckers (1) (1) University of Liege, AGO/GHER, Liege, Belgium (a.barth@ulg.ac.be), (2) Balearic Islands Coastal Observing and Forecasting System (SOCIB), Palma de Mallorca, Spain

OceanBrowser is a web-based visualization tool for gridded oceanographic data sets. Those data sets are typically four-dimensional (longitude, latitude, depth and time). OceanBrowser allows one to visualize horizontal sections at a given depth and time to examine the horizontal distribution of a given variable. It also offers the possibility to display the results on an arbitrary vertical section. To study the evolution of the variable in time, the horizontal and vertical sections can also be animated. Vertical section can be generated by using a fixed distance from coast or fixed ocean depth. The user can customize the plot by changing the color-map, the range of the color-bar, the type of the plot (linearly interpolated color, simple contours, filled contours) and download the current view as a simple image or as Keyhole Markup Language (KML) file for visualization in applications such as Google Earth. The data products can also be accessed as NetCDF files and through OPeNDAP. Third-party layers from a web map service can also be integrated. OceanBrowser is used in the frame of the SeaDataNet project (http://gherdiva.phys.ulg.ac.be/web-vis/) and EMODNET Chemistry (http://oceanbrowser.net/emodnet/) to distribute gridded data sets interpolated from in situ observation using DIVA (Data-Interpolating Variational Analysis).