Geophysical Research Abstracts Vol. 14, EGU2012-3655, 2012 EGU General Assembly 2012 © Author(s) 2012



Variability of the Black Sea from My Ocean Black Sea Monitoring and Forecasting Center Products

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My Ocean project has started provision of the full set of services from 10 January 2012. Regional products in the Black Sea are provided by the Black Sea Marine Forecasting Center (BS MFC). The BS MFC products include operational three-dimensional fields of temperature, salinity, current velocity hindcast, analysis and forecast up to five years (snapshots every three hours or daily averaged fields), reanalysis of the Black Sea dynamics from 1971 to 2002 years, nitrate and phytoplankton daily averaged fields in the upper 200 meter layer and attenuation coefficient analysis. Operational products are simulated by means of assimilation of the sea level anomalies, sea surface temperature and surface chlorophyll concentration, which are products of the Thematic Assembly Centers of My Ocean project, in the models of marine dynamics and ecosystem. Atmospheric forcing for the dynamical model operation is downloaded fro the SKIRON web site. All products are free available in the real-time on the My Ocean project site www.myocean.eu from the My Ocean interactive catalogue in the form of maps on different levels, animations or in digital form. An accuracy of the Black Sea MFC product is estimated by means fof the comparison of simulations with space remote sensing data or independent in situ measurements by profiling floats or surface drifting buoys. The Black Sea MFC products provide a new insight to the broad range variability of the Black sea dynamics and ecosystem

This study is carried out with partial support of the FP6 Sesame project (contract 036949) and FP7 MyOcean project (grant agreement n°218812).