Geophysical Research Abstracts
Vol. 12, EGU2010-2168, 2010
EGU General Assembly 2010

Wind impact on the Black Sea ecosystem

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Combination of the recent satellite and meteorological data for the regional investigation allowed to describe new features of the processes in marine ecosystem and detect some relations with wind variability for different time scales.
Next topics are highlighted in presentation:
1. Inter-annual variability of the wind stress curl over the Black Sea. Shift in the atmospheric processes after 2003 year and related variations in chlorophyll concentration and intensity of the mesoscale currents.
2. Like-tropical cyclone in September 2005 and its impact o the Black Sea upper layer.
3. Strong storm November 11, 2007 and oil pollutions of the Kerch Strait.
4. Relation of the Danube waters transport with wind fields for summer 2007 and 2008.
5. “Valley” wind in the Eastern part of the Black Sea and its impact on the Rim current formation.
6. Low wind conditions and blue –green algae bloom.
NCEP, SKIRON and MHI MM5 wind data together with AVHRR, MODIS, MERIS, ETM+, QuikSCAT, ASAR (ESA) satellite data were used for investigation.
Work was done with support of the SESAME FP7, “Stable Ecosystem” and Operational Oceanography NASU projects.