



## Access to distributed marine databases on the Baltic Sea

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Baltic Nest Institute, Stockholm University (Sweden) in cooperation with Department of Bioscience/DCE, National Centre for Environment and Energy, Aarhus University (Denmark), Leibniz Institute for Baltic Sea Research (Germany), Finnish Environment Institute, Finnish Meteorological Institute and Swedish Meteorological and Hydrological Institute developed a data assessment system, aimed at providing tools for online analysis of marine environmental data (temperature, salinity, chemical properties) from distributed collection of databases on the Baltic Sea. Such approach allows users to have fast access to the most recent data from all major data providers and providers remain in control of their data. The system contains a web data portal, which provides concurrent access to distributed marine databases and presents information in a unified way. Two client programs use the data portal and provide tools to analyse the data.

The DAS - Data Assimilation System (<http://nest.su.se/das/>) accesses databases through the data portal and allow analysing the raw data and creating gridded data, which can be used as initial fields for 3D hydrodynamic models.

A decision support system Nest (<http://nest.su.se/nest/>) developed and maintained at the Stockholm University as a tool to support decision-making at international negotiations regarding the Baltic Sea environment also uses the data portal to access marine data, provide access to the raw data and perform time-series analysis.

The data portal designed to output data in a common format (CSV) for further post-processing using other software. It makes the system open to develop another client programs for data analysis.