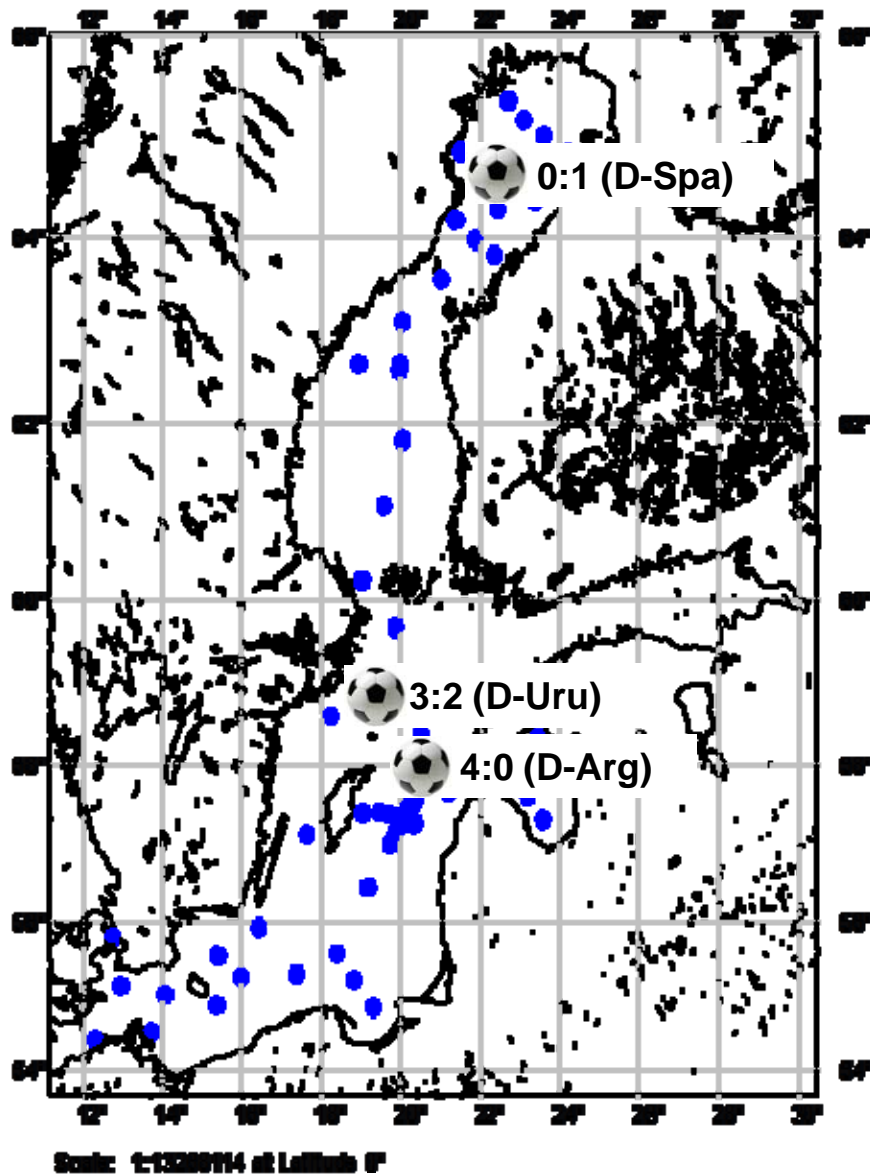




Major goals:

1. Validation data for the biogeochemical simulations
2. Improved understanding of the biogeochemistry in the Gulfs of Bothnia and Riga
3. Assessment of the representivness of the central Gotland Sea station BY15



49 stations

14 „central stations“ in the major basins

Parameters:

depth profiles of:

T , S

O_2 , H_2S

NO_3/NO_2

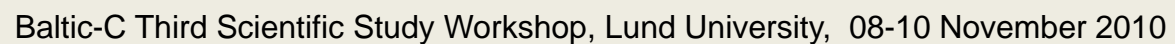
PO_4

C_T

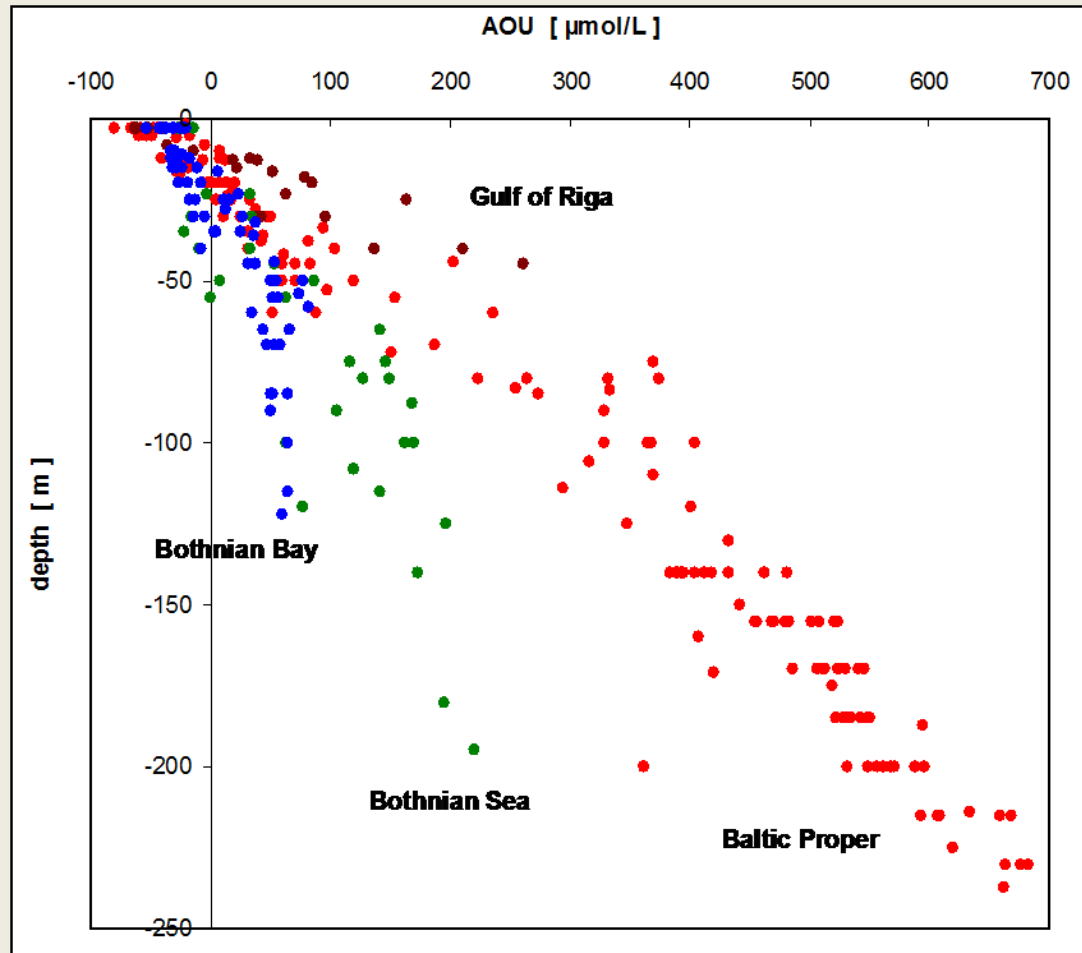
and at central stations: A_T

NH_4

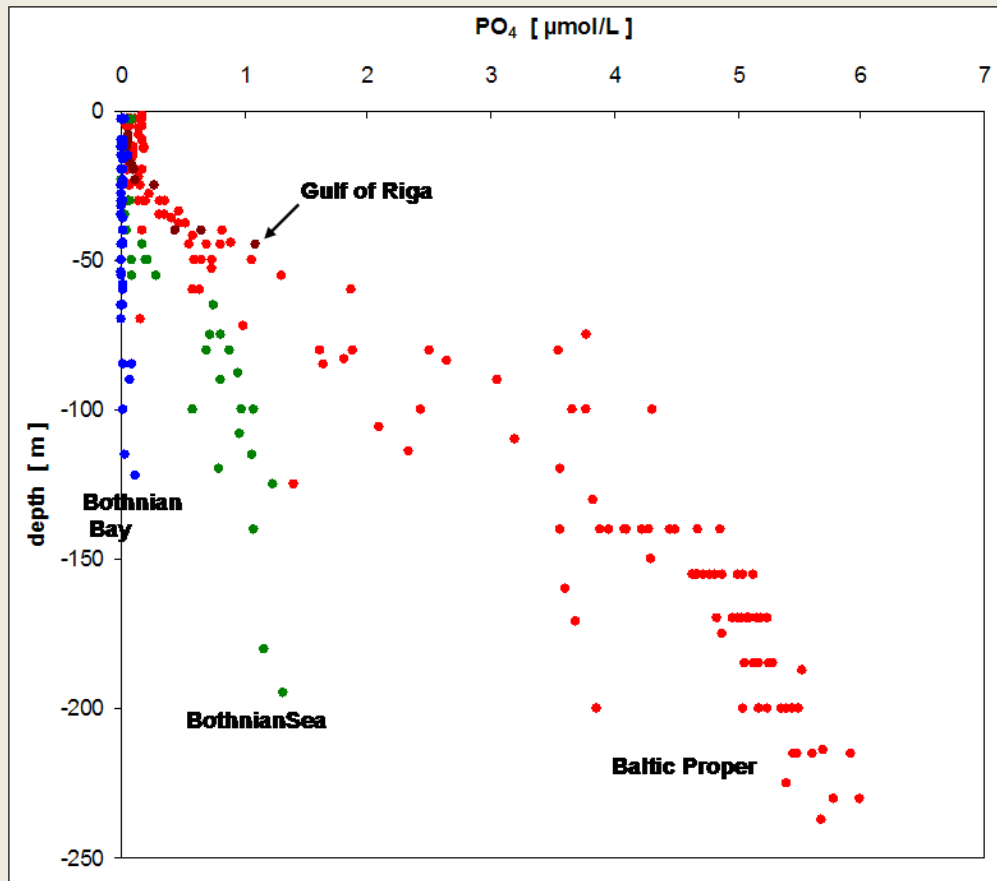
continuously recording of surface water pCO_2



Apparent oxygen utilization



Dissolved phosphate in different Baltic regions





Deliverables Workpackage 2

D5	Seasonally resolved pCO₂ fields for the entire Baltic Sea	2	12
→ D6	Seasonally resolved pCO₂ fields for the entire Baltic Sea: Updates	2	24 (December 2010)
D7	Improved process parametrizations (biomass production, nitrogen fixation)	2	12
→ D8	CO₂ gas exchange balance	2	24 (December 2010)
D9	Concentrations of inorganic/organic carbon species in the major model sub-basins	2	12
D10	Compilation of existing CO₂/carbon data	2	6
D11	Trend analysis for CO₂/carbon variables	2	12

Publications:

Schneider, B., 2010. The CO₂ system of the Baltic Sea: Biogeochemical control and impact of anthropogenic CO₂. In Schernewski, G. and Neumann, T. (eds.), Climate Impacts on the Baltic Sea: From Science to Policy, Elsevier, (accepted).

Schneider, B., 2010. PO₄ release at the sediment surface at anoxic conditions: Contribution to eutrophication?, submitted to Oceanologia.

