WP3 activities during January-May 2011

**Baltic Nest Institute (BNI)** – Thorsten, Maciej, Susa, Baerbel, et al.

- Susa performed a sensitivity analysis on the Ecopath with Ecosim model

The BNI team was at the American Society of Limnology & Oceanography meeting in Puerto Rico with oral presentations on Baltic Sea regime shifts (Feb 2011)

The BNI team participated in the ICES/HELCOM working group of Integrated Assessment of the Baltic Sea (April 2011) and submitted abstracts to the Baltic Sea Science and ICES conference in August and Sept 2011

-papers submitted, published

we will finish a manuscript on the a description of the Baltic Sea food-web model (Ecological Modelling), a manuscript on sensitivity analysis of the food-web model (Ambio) and a manuscript on  regime shift statistical analysis (Ecology letters) until summer

**DTU Aqua (**Margit, Martin, Brian):

Analyses, simulations, etc.:

-analyses to extend the time-series of sprat dynamics, to be incorporated to Ecopath model.

 -quality assurance and validation of NPZD model outputs (mainly reproductive volume and temperature) based on latest hindcasts;

-calibration to observed data ongoing

-discussions with BNI (Bo) about developing new way to estimate cod reproductive volume

-statistical analyses of environmental effects on cod recruitment in past 30-40 years; development of new stock-recruitment-environmental model for application in forecasts

-continued development of approaches for ensemble-average analyses of hindcasts and forecasts of fish biomass

Manuscripts in prep., submitted, published:

-manuscript accepted for publication on effects of climate change, seals, fishing on cod recovery (PLoS One)

We are working on 2-3 manuscripts about:

-NPZD model estimates of fish habitat variables (reproductive volume, temperature)

-NPZD model derived habitat estimates for cod recruitment and biomass modelling

-NPZD model habitat estimates for sprat recruitment and biomass modelling

1-2 of these manuscripts will be submitted to Ambio special issue. Others submitted to oceanography or ecological journals (e. g., Fisheries Oceanography, Prog. Oceanography, etc.).

Meetings:

-participated in ICES/HELCOM WG on Integrated Assessment of the Baltic

-abstract submitted to ICES ASC 2011 re. effects of climate change, seals, fishing on cod recovery

**GU, Jon Havenhand:**

-no response received