WP3 activities during May 5-June 22, 2011

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

- working on two papers. 1. model description, 2 model sensitivity analysis

- test different species interaction settings for future scenarios

- test test future climate scenario output from Baltsem and its sensitivity for the food-web model

- calculate the effects of fisheries on the lower trophic level production

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

Analyses, simulations, etc.:

-analyses to extend the time-series of sprat dynamics. Expect to have recruitment and SSB time series back to 1956, and snapshots of SSB back to 1930 by end of summer.

 -continuing quality assurance and validation of NPZD model outputs (mainly reproductive volume and temperature) based on latest hindcasts; have identified some biases in some model outputs for reproductive volume and developing ways to correct for this (e. g., new calibrated time series)

-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:

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.).

Presentations upcoming:

-reconstruction results will be presented at BSSC in St.Petersburg as poster, and EwE model results (partly Ecosupport) will be shown at ICES ASC 2011 (paper)

-results about seals-climate-fishing impacts on cod presented at ASC 2011 (paper)

**GU, Jon Havenhand:**

-email discussions with BNI re. ecopath runs with different pH, but not likely possible before end of project.

-Jon to prepare qualitative review of pH effects on biota for Ambio issue.