WP6 “Climate change impact on ecosystems and biodiversity of the Baltic Sea”

Tasks:

6a

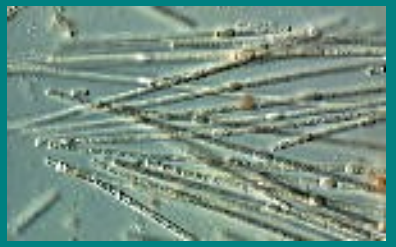
To forecast the variation of species composition and population dynamics upon the influence of the climate change. To assess the potential influence of the climate change on trophic relationships of the populations; **(Community structure and dynamics);**

Some ecosystem components:

Phytoplankton

Achnanthes taeniata

Monoraphidium contortum



Aphanizomenon flos-aquae

Zooplankton

Eurytemora affinis

Acartia bifilosa

Bosmina longispina

Tasks

6b

To develop a long-term prognostic model forecasting fish growth, stock dynamics and structure of fish communities based on climatic and human impact **(Fish community model);**

Human impact on fish community

Tasks

6c
Provide an advice on development and implementation of policy for sustainable management of marine living resources **(Advice on fisheries policy).**

Tasks

6d

Provide advice on development and implementation of WFD (coastal and transitional waters), EU maritime policy, EU Marine Strategy Directive and HELCOM Baltic Sea Action Plan **(Advice on environmental policy).**

Planned outputs

- According to the tasks :
  - ✓ forecasts and models;
  - ✓ advice.

- Certainly:
  - ✓ new knowledge;
  - ✓ publications.

WP participants

Latvian Institute of Aquatic Ecology

Latvian Fish Resources Agency

Institute of Biology, U of Latvia

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Activities 2006/2007

Analyzing existing material and making electronical versions of all data.

Experimental work - estimation of phytoplankton community dynamics.

Field work - sampling and analysis for assessment of variation in biodiversity, species relationships and trophic links.

Development of fish community model.

Field work

Activities 2008/2009

- Modelling of impact resulting form the climate change and fluctuation of anthropogenic load on biodiversity and ecosystem productivity - using the results of WP1 and WP5;

- Forecasting dynamics of ecosystem and its components, using the obtained field and experimental data and modelling results;

- Advice, recommendations, publications.

Thank you!