Challenges for the Baltic Sea region from the HELCOM perspective

Mr. Mikhail Durkin, Helsinki Commission 7th Study Conference on BALTEX 10-14 June 2013, Borgholm Island of Öland, Sweden

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- Baltic a sea in urgent need of help
- Helsinki Commission in a nutshell
- Strategy to reach the Baltic Sea in good environmental status
- Climate change in HELCOM's work
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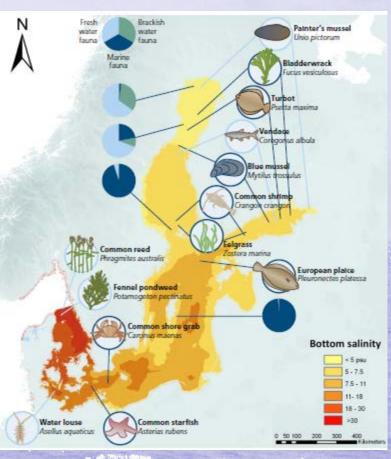






Baltic - a sea like no other





- Marine Area: 415,000 km²
 - 9 Coastal States

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Catchment area: 1.72 million km²

- 4 x size of the sea area
- 14 countries, 85 million people

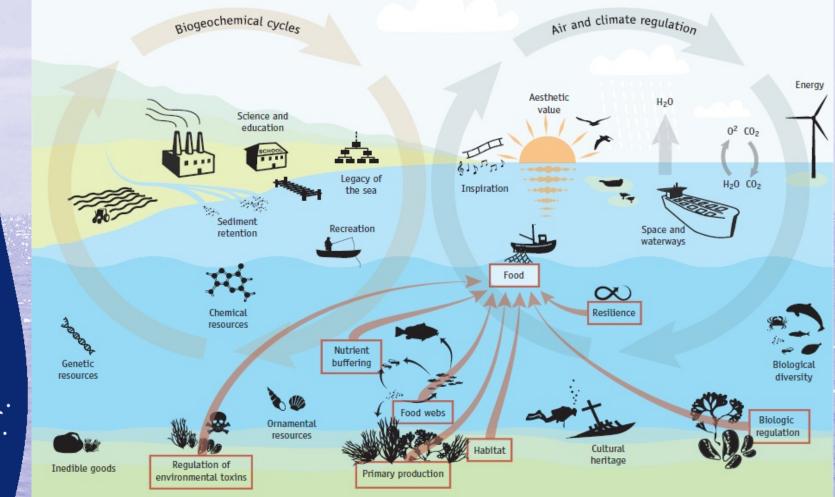
- Natural specifics:
 - low temperature
 - low water exchange rate
 - brackish water
 - sensitive to human pressures

Is it the future we want for the Baltic?



Do we know enough to save the Baltic?

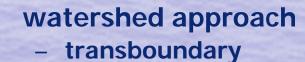
Benefits 3,8(5,0) B €/year – Costs 2,8 B €/year = Surplus 1(2,2) B €/year



Ecosystem services provided by the Baltic Sea, also illustrating (orange arrows) how one ecosystem service (food) is dependent on other ecosystem services. (by J. Lokrantz/Azote, BalticSTERN Final Report "The Baltic Sea - Our Common Treasure. Economics of Saving the Sea ", 2013)

HELCOM

- intergovernmental organisation
- nine coastal countries and the EU
- protection the marine environment
 - pollution prevention,
 - nature conservation,
 - safety of navigation



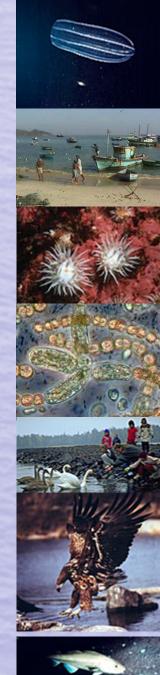
voluntary commitment and legal obligation

Helsinki Commission

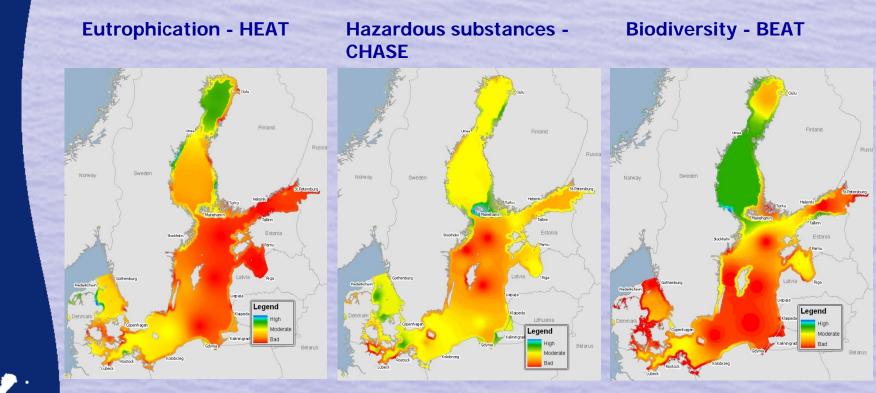


Some achievements (since 80s)

- > 40% reduction of nutrient loads
- 50% reduction of discharges of 46 hazardous substances
- 109 of the Hot Spots recovered
 - 162 sites designated in 1992
- 159 Baltic Sea Protected areas (10.3% of the marine area)
 - 78 (3.9% area) in 2003
- Populations of grey seal, whitetailed eagle have been recovered
- Less shipping accidents and illegal oil spills, better preparedness



HELCOM Initial Holistic Assessment of the Ecosystem Health of the Baltic Sea 2003-2007



- An overview of the ecosystem health of the Baltic Sea in 2003-2007, including status, pressures and economic analysis
- A baseline for assessing the effectiveness of the implementation of the measures of the HELCOM BSAP

HELCOM Baltic Sea Action Plan

Viable

populations

of species <

Nutrients on natural levels

Natural levels of oxygen and algal blooms

Natural distribution of fauna and flora HELCOM Baltic Sea Action Plan

Natural marine and coastal landscapes

> Thriving and balanced communities

EUTROPHICATION

BIODIVERSITY

MARITIME TRAFFIC

No alien species

Minimum sewage and air pollution

No illegal or accidental discharges

Helsinki Commission Baltic Marine Environment Protection Commission

Healthy

wildlife

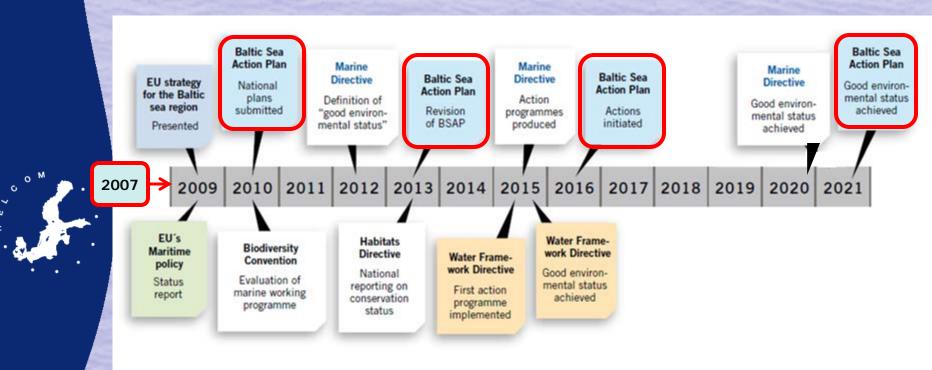
HAZARDOUS SUBSTANCES

Hazardous substances on natural levels

All fish healthy to eat

Coherent implementation

- 2010 Moscow, Ministerial Meeting
 National Implementation Programmes, overall progress
- 2011 High-level segment, HELCOM Identifying good examples and less-progress areas
- 2013 Copenhagen, Ministerial Meeting Efficiency of reaching the targets, additional needed actions



Examples of implementation

Nutrient Pollution

- Improvement of waste water treatment
- Ban of P-containing detergents
- Agri-environmental measures

Hazardous substances

Knowledge on occurrence and sources
 Biodiversity and Nature Conservation

- List of priority salmon and sea trout rivers
- Update of Red List of species and habitats
 Shipping and Response to Accidents
 - Special Area for sewage under MARPOL
 - Sub-regional risk assessment of accidents

Cross-sectoral

- Indicators of Good Environmental Status
- Maritime Spatial Planning
- Dialogue within fisheries and agriculture











Further major focus areas

- Sewage from scattered settlements & houses
- Trapping and recycling nutrients from agriculture
- Addressing transboundary pollution
- ✓ Further monitoring of hazardous substances
- Habitat restoration and protection of migratory fishes
- ✓ Management plans for Marine Protected Areas
 - Improvement of marine knowledge
- Accomplishment of earlier commitments



Climate change and HELCOM: – policy response

- 2007 HELCOM Baltic Sea Action Plan:
 - "[We are...] fully aware that climate change will have a significant impact on the Baltic Sea ecosystem requiring even more stringent actions in the future" (HELCOM 2007, BSAP)
- 2010 HELCOM Moscow Ministerial Declaration:
 - [We agree...] on the need for supplementary actions and admit that climate change may have profound consequences both for the environmental status of the Baltic Sea as well as for the scope of the measures adopted by the Contracting Parties until now.

→These supplementary or more stringent actions need to be specified in HELCOM's work



Baltic Sea Environment Proceedings No. 111



Helsinki Commission itic Marine Environment Protection Commission



Assessment of Climate Change for the Baltic Sea Basin

🙆 Springe

HELCOM Workshop on Baltic Sea Region climate change and its implications

- Climate changes and transforms the Baltic Sea
 - Global change
 - Changes in the past in BSR
 - Future changes in BSR
 - Will the BSAP ensure GES in future climate?
 - Adaptation, planning and coastal challenges
- HELCOM's role
 - Precautionary approach
- Current level of knowledge
 - Proposals

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- Means to communicate to the HELCOM decision-makers
- Thematic assessment of climate change 2013

Conclusions of the HELCOM Workshop on Baltic Sea region climate change and its implications





5-6 February 2013, Warnemunde, Germany

> Helsinki Commission Baltic Marine Environment Protection Commission

Proposals on BSR climate change and its implications

State, impacts and measures

- Impacts to be included into load reduction targets setting
- Reduce human pressures to mitigate impacts on biodiversity
- Protected areas are essential to ensure a safe space for species
- Non-indigenous species may increase
- Balancing acts to decrease additional pressures, e.g. toxics
- Acidification requires attention
- Climate risks and vulnerability
- Multiple-stressor and holistic approach

Knowledge

- Develop and maintain marine monitoring and data assimilation
- Further research needed
- Communicate uncertainties
- Improve communication, science and policy
- Review at regular intervals

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Climate change in the Baltic Sea Area HELCOM thematic assessment in 2013

DRAFT



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HELCO MINISTERIAL COPENHAGEN MEETING 3 OCTOBER 2013

- Overall implementation of the HELCOM BSAP
- Core indicator-based follow-up and assessment system
- Revision of Maximum Allowable Inputs and Country Allocated Reduction Targets
- Incorporation of cost-benefit analysis of the BSAP implementation and review

Climate change implications to the Baltic marine ecosystem

- enhanced cross-sectorial actions to respond, prepare and better adapt to the current and future impacts
- advanced modelling and assessment of the effects in catchment areas in relation to e.g. agricultural practices
- stressing role of biodiversity as optimal contributor for storing and absorbing carbon
- assessment of regional climate change and its implications on the Baltic Sea ecosystem a regular activity

Road ahead - priorities

- Climate change adaptations as regional priority
 - Follow-up in global context (UNFCCCC)
 - 2013 Ministerial Conference
- Impacts adaptation
 - Do we need stricter measures to reach Good Environmental Status in climate change conditions?
- Continue cooperation between HELCOM and BALTEX

 Include BALTEX climate change assessments into HELCOM six year assessment cycle

HELCOV MINISTERIAL COPENHAGEN MEETING 3 OCTOBER 2013

Six years of the Baltic Sea Action Plan

- How is the Baltic Sea ecosystem doing?
- Are we on the right track to reach good environmental status?
- What do we need to do next for a healthy Sea?
- How to best join efforts and pool resources for the Baltic common vision?



Thank you for your attention!

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