Alternative Fuels & Baltic environmental Goals

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Environmental Regulation?

Toward a clean Baltic Sea

- HELCOM -intergovernmental organisation
- The Helsinki Convention (treaty 1974/1992)
- 9 coastal States and the EU
- covers all human activities affecting the Baltic Sea:
  - **Maritime traffic (incl accidents)**
  - agriculture,
  - industrial activities, sewage treatment,
  - fisheries, offshore energy

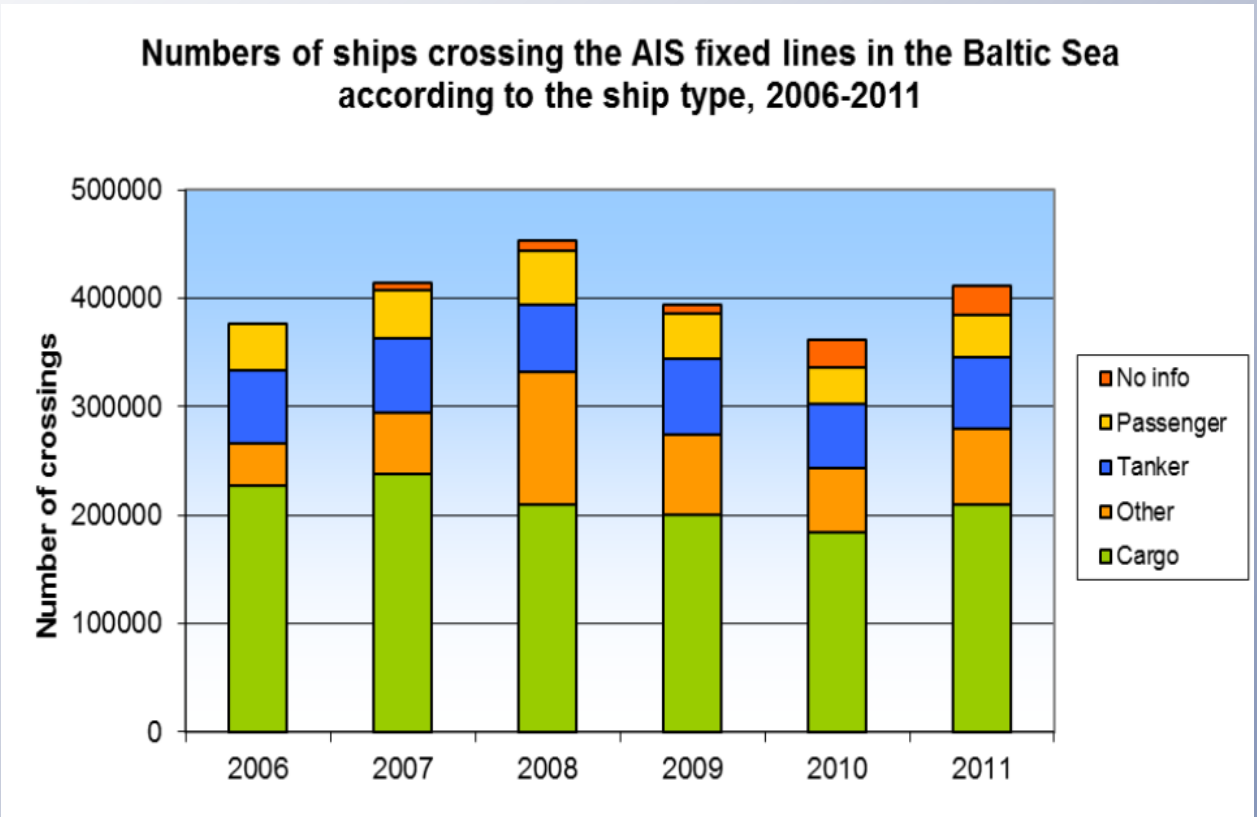
HELCOM MARITIME GROUP

- Maritime authorities contracting States + EU
- Stakeholders participate as HELCOM “observers”,
  - shipping industry (BIMCO, ICS, ECSA, ECC)
  - ports (BPO, ESPO, FEPORT)
  - WWF
  - Other IGOs (IMO, REMPEC, OSPAR)
- subgroups e.g. HELCOM AIS, HELCOM SAFE NAV
- Cooperation with NDPTL and other organisations

HELCOM - IMO

- IMO is the global regulator
- Measures for the Baltic Sea are effective when ships, irrespective of a flag, are treated in a uniform manner
- HELCOM is a platform for:
  - regional implementation of global shipping regulations
  - joint contributions by the Baltic Sea countries to IMO
  - regional work on assessments and new innovative topics

Baltic Maritime Traffic



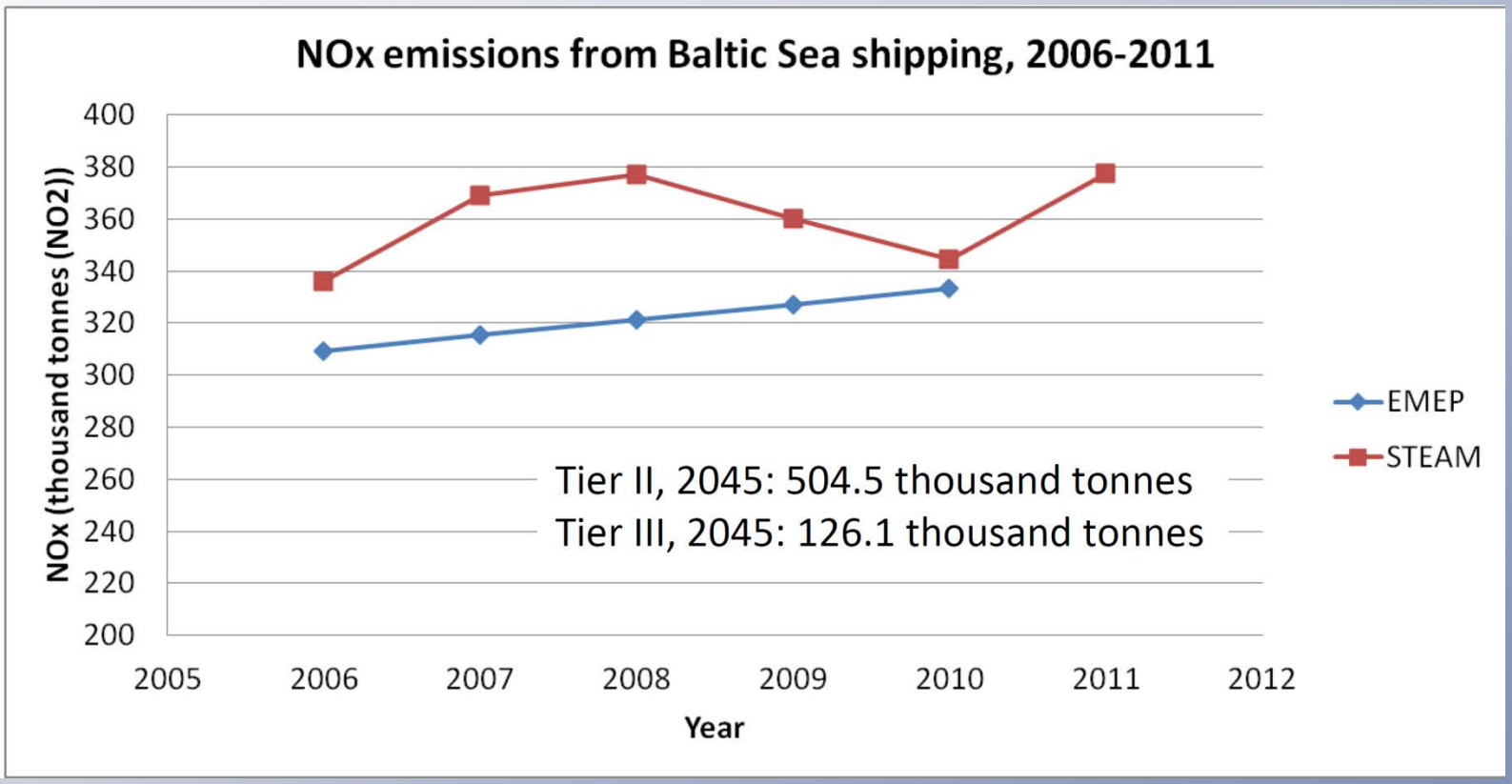
Data from the Baltic regional HELCOM AIS system

I. Baltic nutrient pollution

- Nutrient pollution a key Baltic challenge
- Expensive investments have reduced discharges from coastal point sources 1994 -2008:
  - Nitrogen: 33% (reduction of 1,170 t/year)
  - Phosphorus: 27% (reduction of 78t/year)

- Alternative fuels is one way for the maritime sector to contribute to i.a. Nitrogen pollution

Nox Emissions

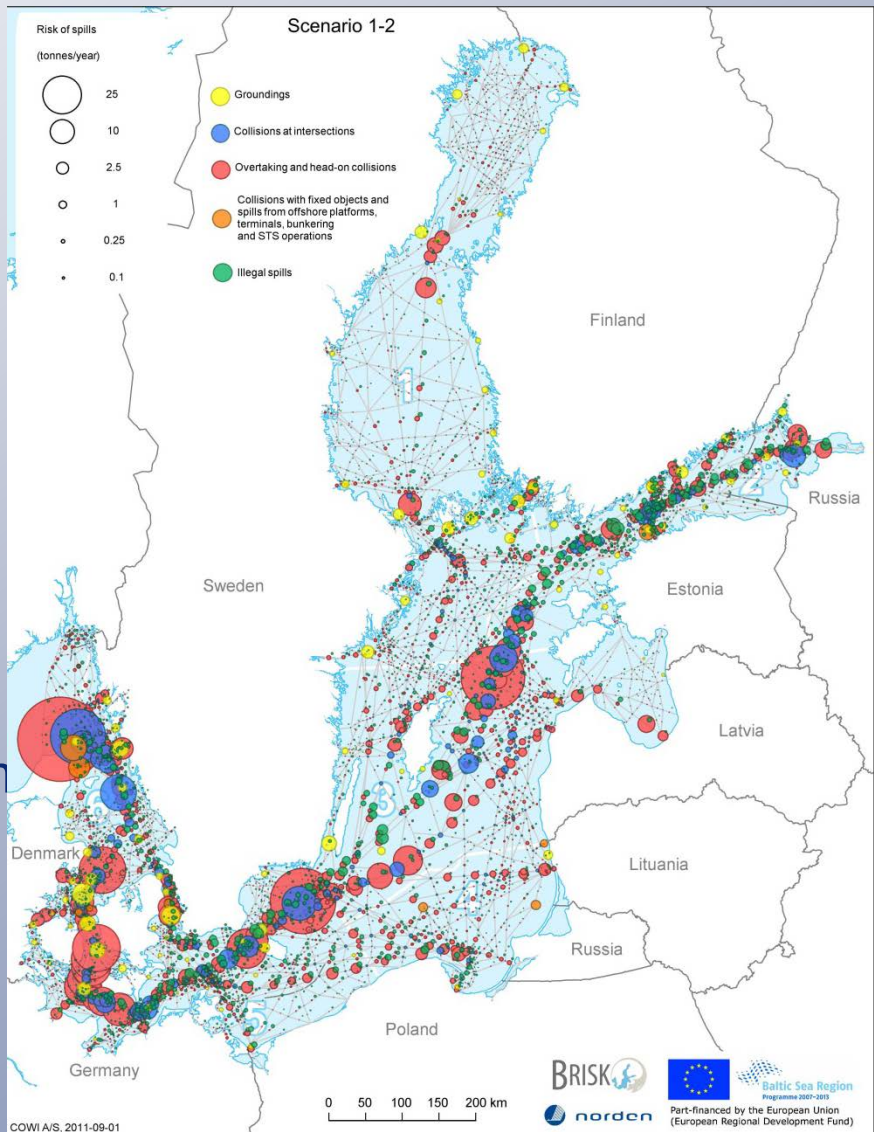


Jalkanen et al. 2013

II. Reduced risks of oil / hns pollution

- Analysis based on AIS data 2008/2009 (average winter conditions)
- Collisions and groundings by far the most important spill source
- **For spills of 300-5000 tons the picture of risks very much reflect ship traffic intensity**
- For spills above 5000 tonnes the risks are concentrated on the tanker route

Based on HELCOM BRISK/BRISK-RU projects (EU/NCM)



The elevator of Cooper Union

HELCOM Ministerial Meeting
3 October 2013
Copenhagen, Denmark