

Setting the scene: The Extent of the Problem, Potentially Polluting Wrecks in the Baltic Sea

Ida-Maja Hassellöv

Wrecks as Environmental Risks: The Legal Framework

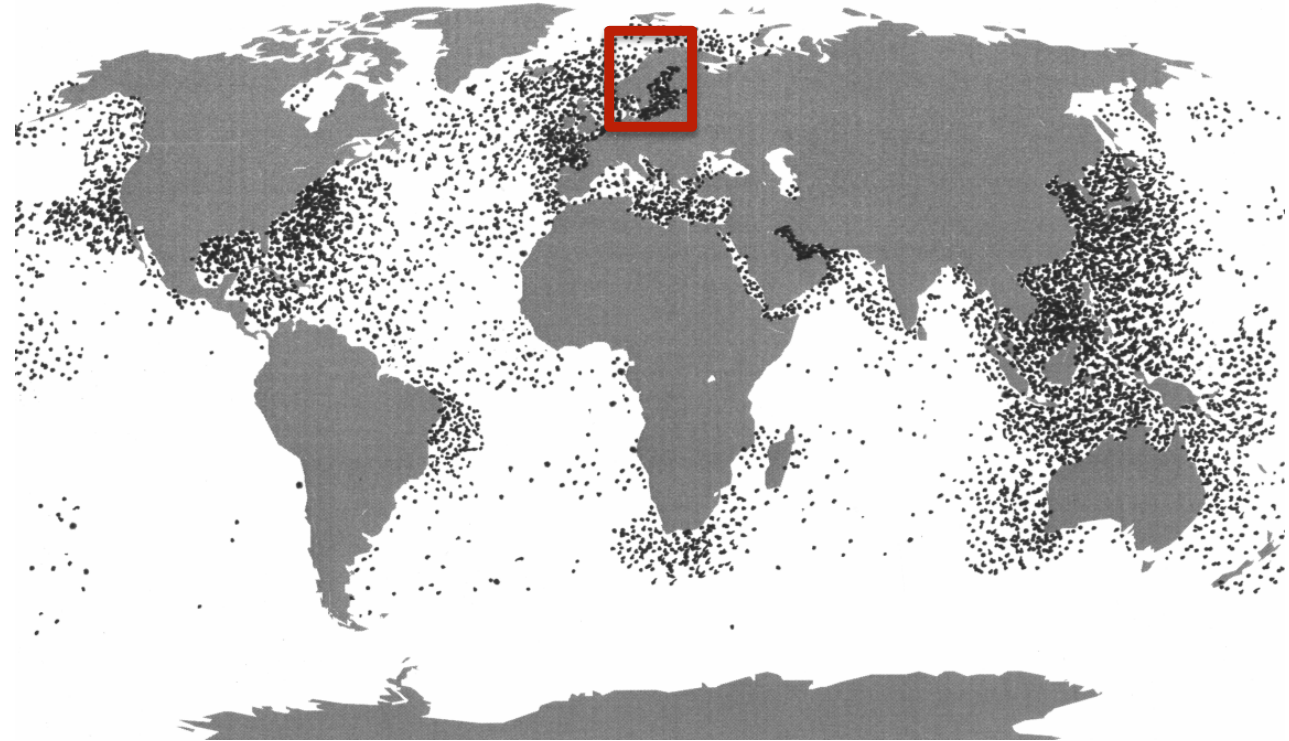
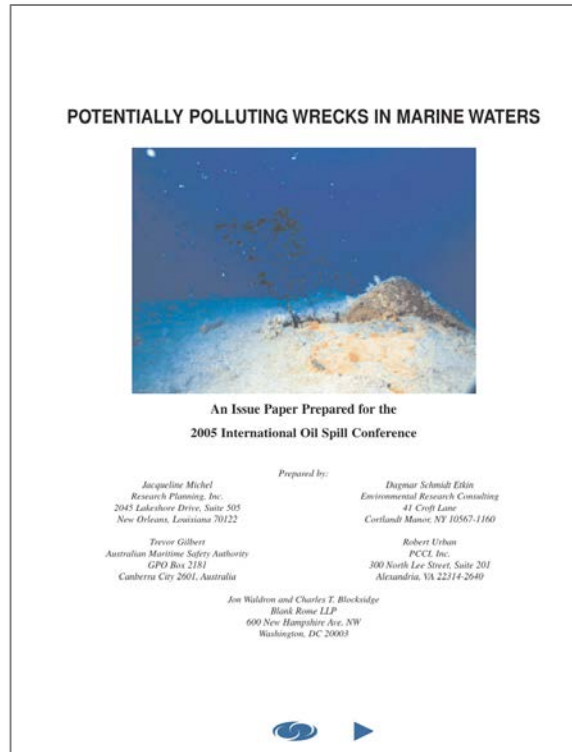
SYKE-BALEX Seminar

Helsinki 29-30 November 2017

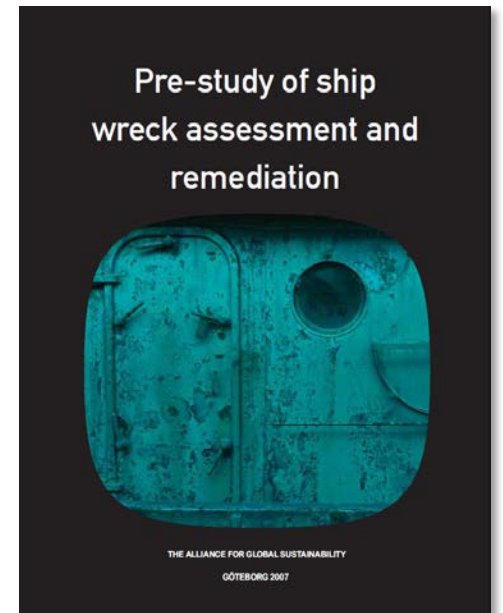
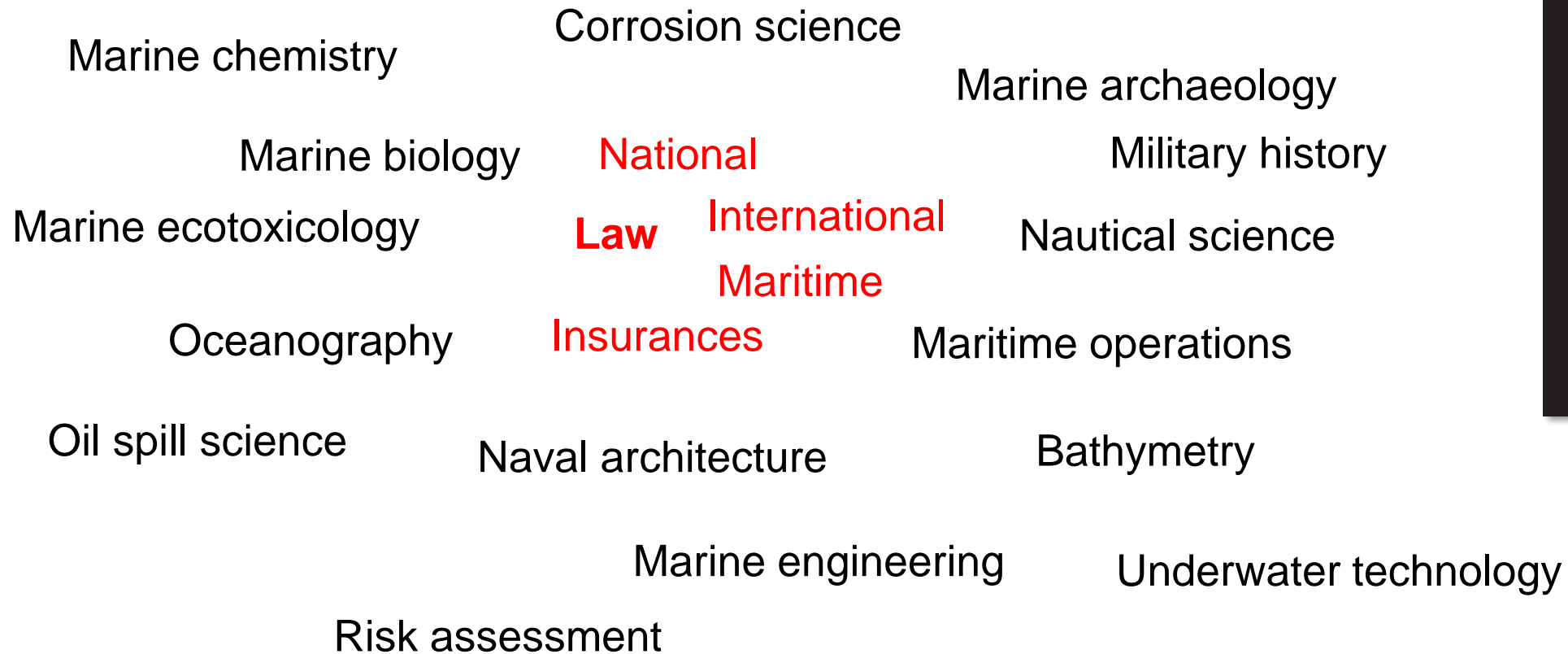
Outline

- **Definitions**
- **Inter- and transdisciplinarity**
- **Handling of polluting shipwrecks**
- **The way forward**

Different definitions - different figures

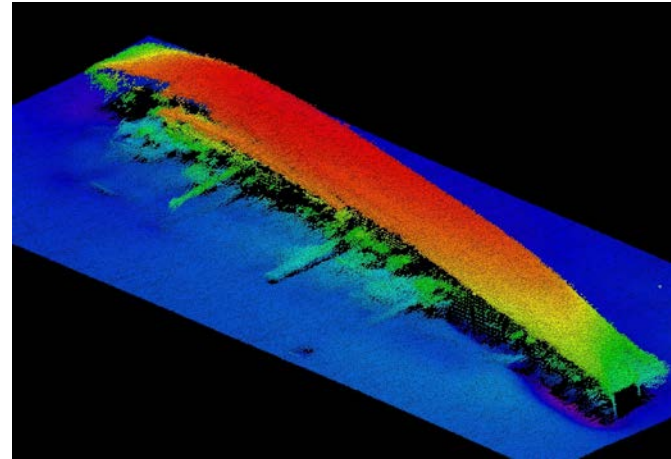


Interdisciplinarity



Transdisciplinarity

- Maritime Administration
- Coastguard
- Maritime museums
- Navy
- Countyboards
- Coastal municipalities
- SMHI
- Geological Survey
- Wreck divers
- Salvage enterprises
- ...



Courtesy: Swedish Maritime Administration

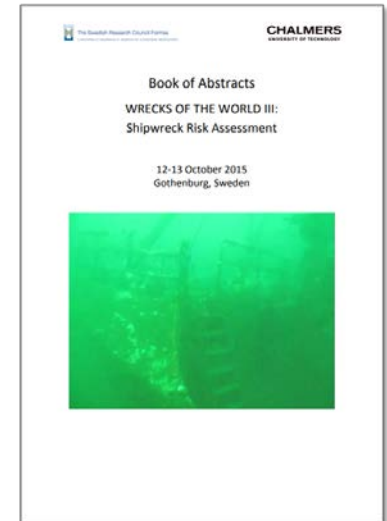


Courtesy: Maritime Museum of Gothenburg



Handling of polluting shipwrecks

- **Recognition; many wrecks around**
- **Need for wreck inventory, prioritization and risk assessment**
- **No liable owners nor appointed responsible national authorities**
- **Need for inter- and transdisciplinary approaches to ensure successful operations and overall resource efficiency**



Activities related to polluting shipwrecks

State	Registration by authorities	Reasons (1) Potential pollution (2) Safety of navigation	Work on potential pollution risks	On-site investigations	Oil removal from old shipwrecks
Finland	Yes	1/2	Yes (G)	Yes	Yes
Russia	-	-	-	-	-
Estonia	Yes	1/2	Yes	Yes	Yes
Latvia	Yes	2	Yes		
Lithuania	Yes	2	Yes		
Poland	Yes	1/2	Yes	Yes	Yes
Germany	Yes	1/2	Yes	Yes	Yes
Denmark	Yes	2	Yes		

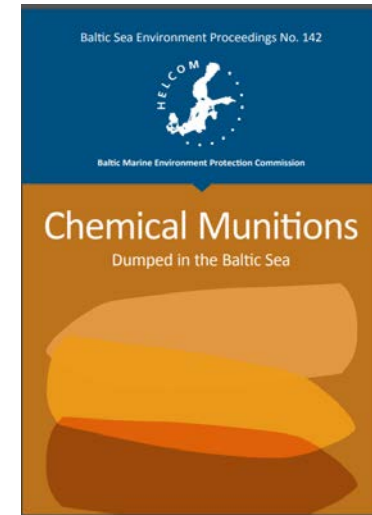
2017 (?)

G = Governmental

E. Svensson, **2010**. Potential Shipwreck Pollution in the Baltic Sea Overview of Work in the Baltic Sea States

Wrecks and dumped munitions

- **Helcom Submerged**
- **Research projects**
 - **EU BSR CHEMSEA**
 - **NATO MODUM**
 - **EU BONUS SWERA**
 - **EU Interreg BSR DAIMON**



Potentially polluting shipwrecks in the Baltic Sea

- **Some thousands**
- **Some hundred highly prioritized**



Cost-benefit analysis

Cost of remediation



**Environmental benefit,
Ecosystem services
valuation**

The way forward

- **Challenge to prioritize remediation; need for risk assessment**
- **Transfer of generic knowledge/experience**
- **Time frame, deterioration**
- **Triple helix**
- **Legal aspects – obstacles?**

Agenda 2030

A challenge driven approach

Required actions to reach goals 2030?

Thank you for your attention!

ida-maja@chalmers.se

