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Strategic and operational risk management for wintertime maritime transportation system "STORMWINDS"

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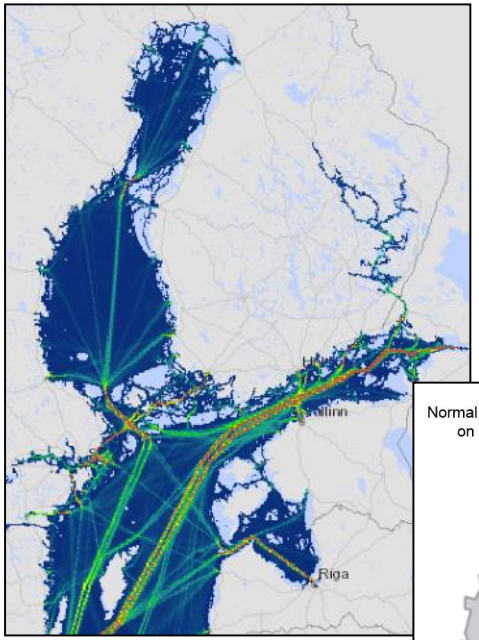
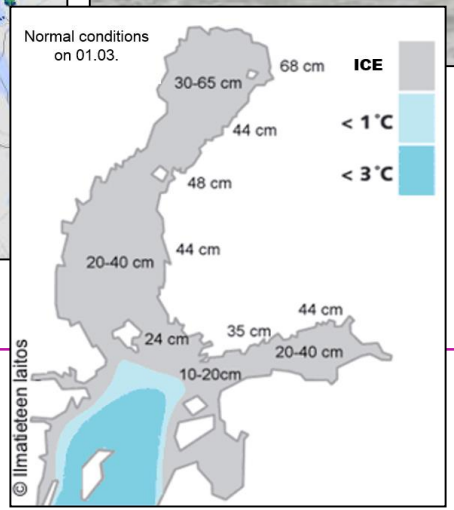
Meeting of the International Steering Committee for the Policy Area on Maritime Safety and Security of the EU Strategy for the Baltic Sea Region (EUSBSR)
Tallinn, Estonia, 06.06.2018

Background and STORMWINDS focus

Intensive shipping traffic in the ecologically sensitive Northern Baltic Sea





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BONUS
SCIENCE FOR A BETTER FUTURE OF THE BALTIC SEA REGION

Wintertime maritime transportation risks in the Northern Baltic Sea – oil spills

Wintertime operations

Oil spill in ice

The BONUS STORMWINDS contribution to implementing EU maritime policy

EUSBSR
EU STRATEGY FOR THE BALTIC SEA REGION

- Reducing environmental impact of shipping: accidental discharge of oil
- Reinforcing preparedness and response capacity

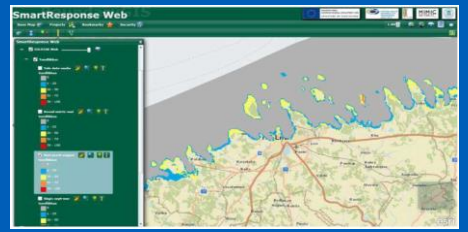
Policy	Operational
Risk analysis, preparedness and response for oil spills in ice	Decision support tools for oil spill combating in ice

Policy support: strategic risk management

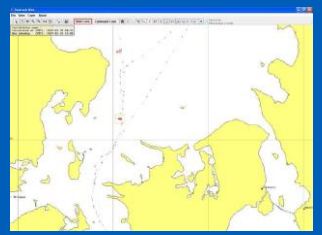
Policy questions		BONUS STORMWINDS Approach
Q1	Oil spill risk	Industry recommendations
Q2	Response effectiveness	Stakeholder participation
Q3	Improvements	Scientific research

Operational support: decision support tools

Existing tools



SmartResponse Web



SeaTrack Web

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Scientific research

- Oil dispersion in ice
- Sea ice dynamics models and tests
- Oil ouflow models
- …

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Improved situational awareness tools during oil spill operations in ice conditions

Impact

BONUS focuces on science and policy / operation impacts

Impact in maritime policy and practice

- Strategic risk management has explicit links to maritime policy
- Cooperation with key stakeholders as project partner

Impact in maritime policy and practice

OpenRisk Guideline for Regional Risk Management to Improve European Preparedness and Response at Sea

OpenRisk

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- Several STORMWINDS outputs (e.g. ADSAM, NG-SRW, spatial risk and response effectiveness tool) are included and tested in context of the HELCOM-coordinated OpenRisk project
- OpenRisk guidelines for risk management for oil spill preparedness and response
- This encourages practical use across the Baltic Sea and

Impact in science

- Currently, STORMWINDS has:
  - 18 journal articles accepted, several more submitted
  - 10 conference articles accepted
  - 2 (partially) funded doctoral theses completed
  - 4 funded master theses completed
- STORMWINDS actively contributes to the ICES Working Group on Risks of Maritime Activities in the Baltic Sea, a Committee to develop science-based tools for maritime risk management

ICES CIEM

Next steps after project closure

Next steps

- Ensuring research uptake through:
  - Further implementation of selected risk analsysis models and tools (NG-SRW, ADSAM, spill response effectiveness) in the OpenRisk guideline and Baltic Sea case study (with HELCOM, SYKE, and WMU, target October 2018).
  - Further impact through notification of IMO MEPC of OpenRisk guideline and STORMWINDS tools (with WMU and SYKE, target November 2018)
- Further application and testing of selected risk analysis tools in the final OpenRisk workshop (October 2018, Malmö)
- Operational use of NG-SRW in Estonia is planned after final testing is performed, this will be further operationally supported by UTARTU
- Operational use of improved SeaTrack Web in complete Baltic Sea is already done, this will be further operationally supported by SMHI

Thank you!
Questions?

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