FAMOS
FINALISING SURVEYS FOR THE BALTIC MOTORWAYS OF THE SEA

FAMOS Freja & Odin

Andreas Andersson, Project Leader

Swedish Maritime Adminsitration

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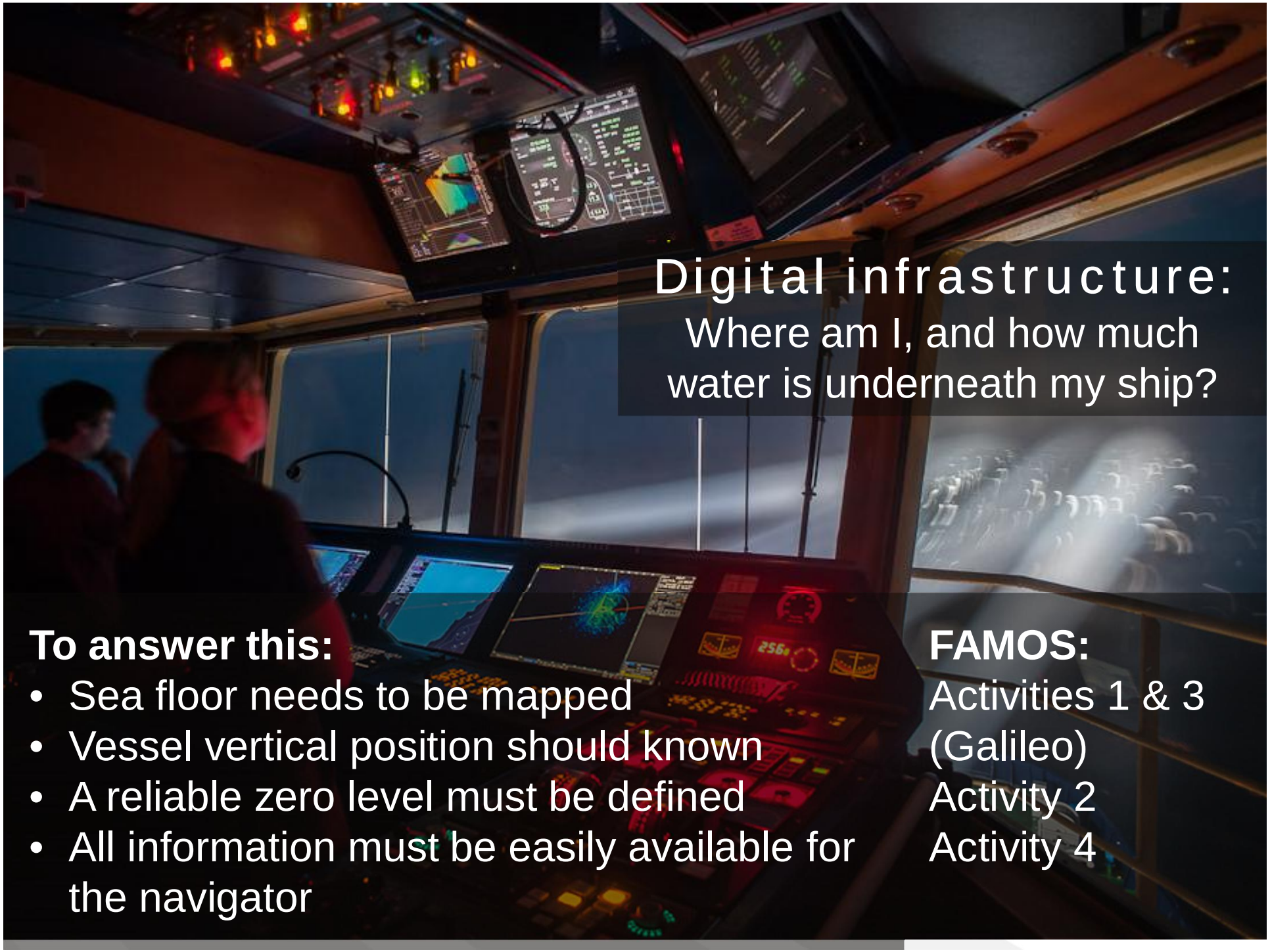


Digital infrastructure:

Where am I, and how much water is underneath my ship?

To answer this:

- Sea floor needs to be mapped
- Vessel vertical position should known
- A reliable zero level must be defined
- All information must be easily available for the navigator

FAMOS:

Activities 1 & 3 (Galileo)
Activity 2
Activity 4

Organizational changes

- New project leader

  Andreas Andersson since August 1st

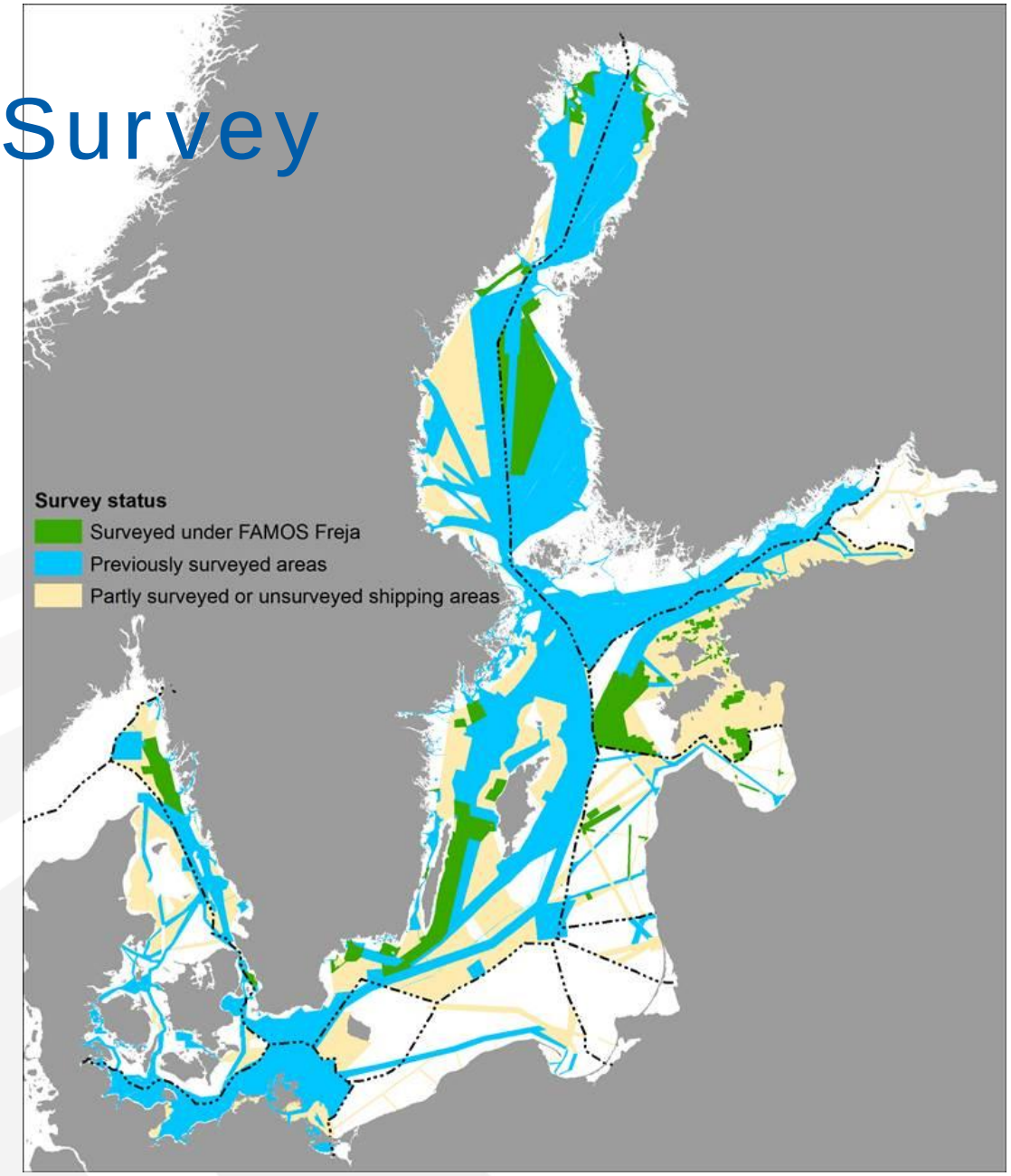
- New organization joined:
  Lithuania Maritime Safety Administration

FAMOS Freja (2014-2016)

- Final draft of the final report is to be completed in November 2017
- Hydrographic surveys of 31 733 km^2 completed
- 8 Gravimetry campaigns are carried out.
- A report regarding shipborne GNSS messuarements for the sea is completed.
- The new survey vessels Sonars and Kaja are procured and implemented for EE and LT
- Bathymetric Database procured and contract signed for FI
- Procurement of a new production system for ENC and papercharts is completed and implemented in SE.
- Improving productions systems in DK, FI, EE and LV

FAMOS Freja Survey

Hydrographic surveys of 31 733 km^2 completed (Slightly larger than the surface of Belgium)



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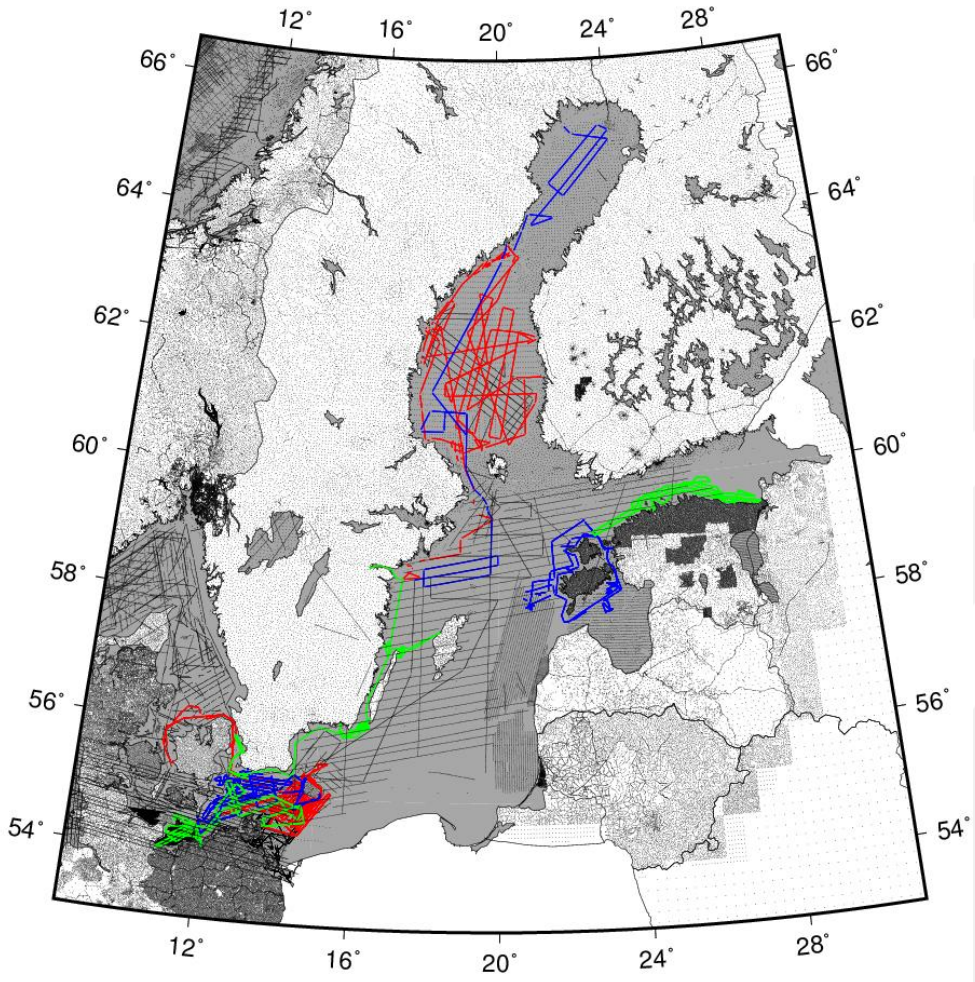
Marine gravimetry campaigns performed in FAMOS till July 2017



- DENEB 2015
- Airisto 2015*
- Jacob Hägg 2015
- Jens Sørensen 2015

- DENEB 2016
- Jacob Prei 2016*
- Jacob Hägg 2015
- Jens Sørensen 2016

- DENEB 2017*
- Sektori 2017
- Jacob Hägg 2017a
- Jacob Hägg 2017b

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FAMOS Freja Gravimetry

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FAMOS Freja procurement examples

Productions system for Sweden

Latvian survey vessel
SONARS

Estonian survey vessel
KAJA

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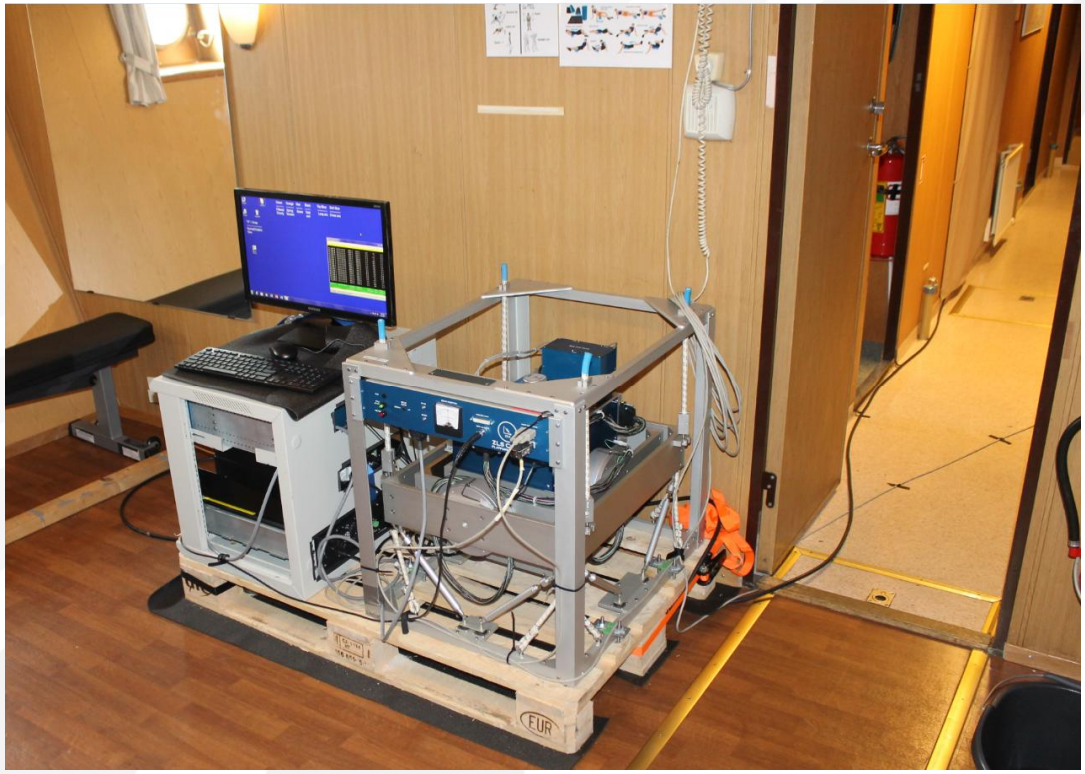
FAMOS Odin (2016-2018)

- Procurement of a ship gravimeter for Sweden is completed
- The hydrographic surveing is on schedule with the help och national resourses in all countries as well as procured surveys in SE
- Gravimetry measurements onboard Stena Lines m/s Urd completed with very good results.
- Procurement of a new chart production system for FI coompleted and contract signed.
- The joint gravimetry database is being filled with data from all campaigns.
- Study on fuel efficient routing and UKC management potential is on-going

FAMOS Odin ship gravimeter procured

Ship gravimeter for SE procured to a value of around 450 000 €



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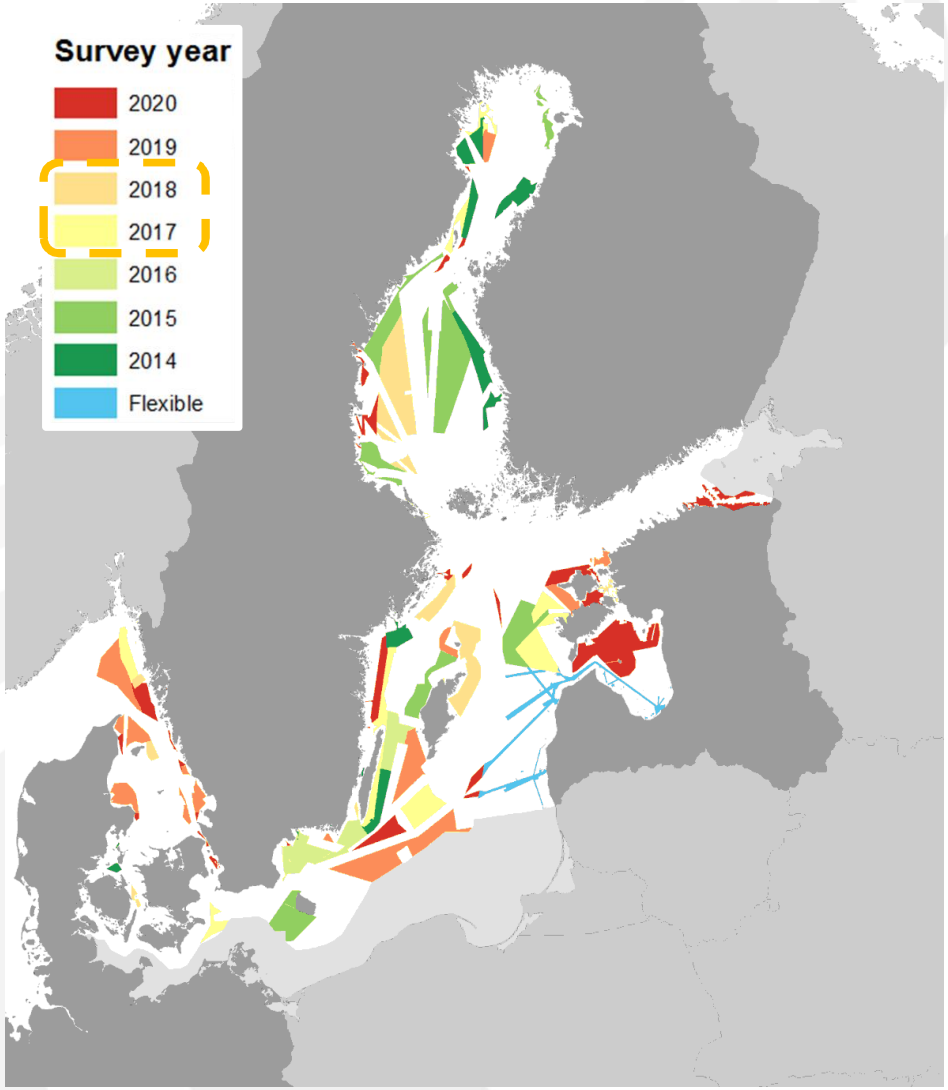
FAMOS Odin Surveys

During 2017-2018 about 25.000 km² are estimated to be surveyed



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FAMOS Odin Gravimetry

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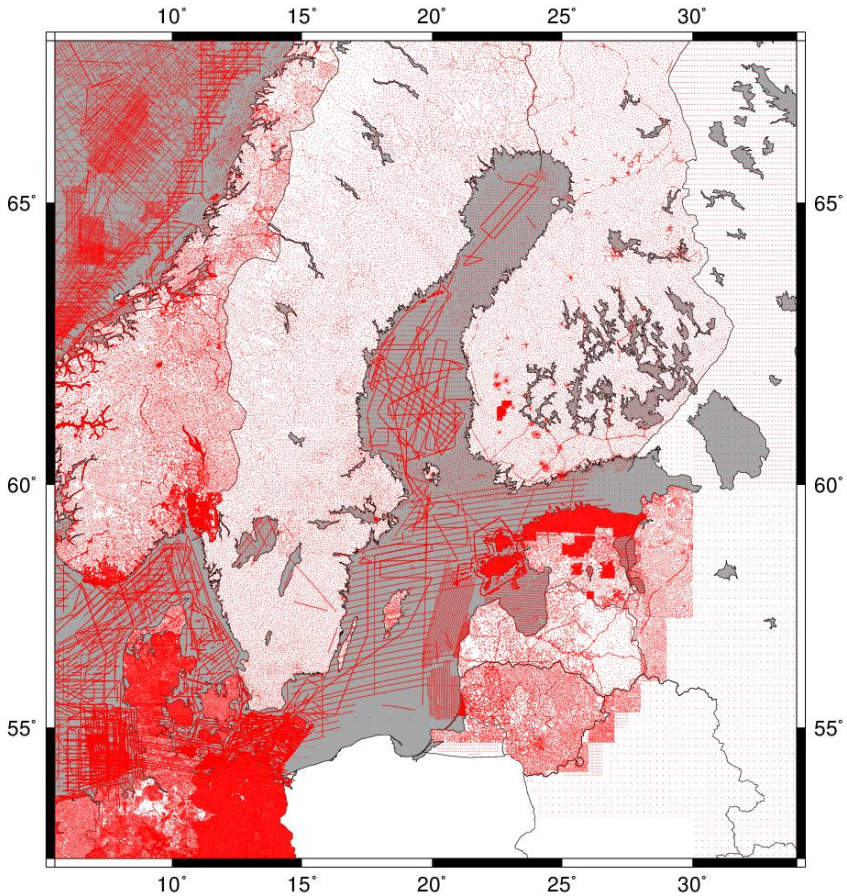
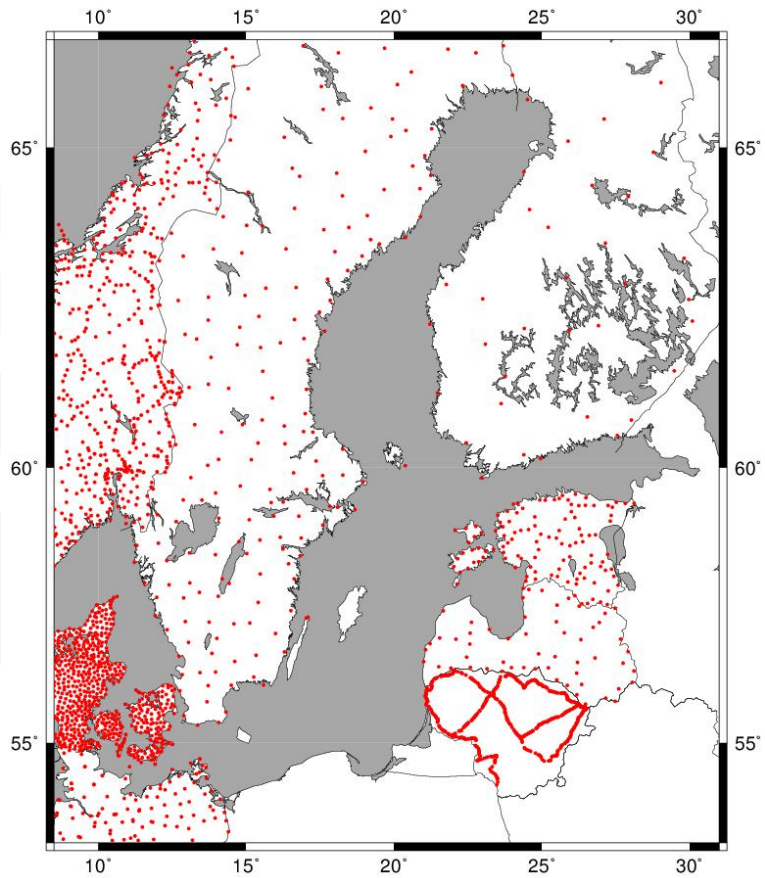
FAMOS Odin gravimery and GNSS database implemented





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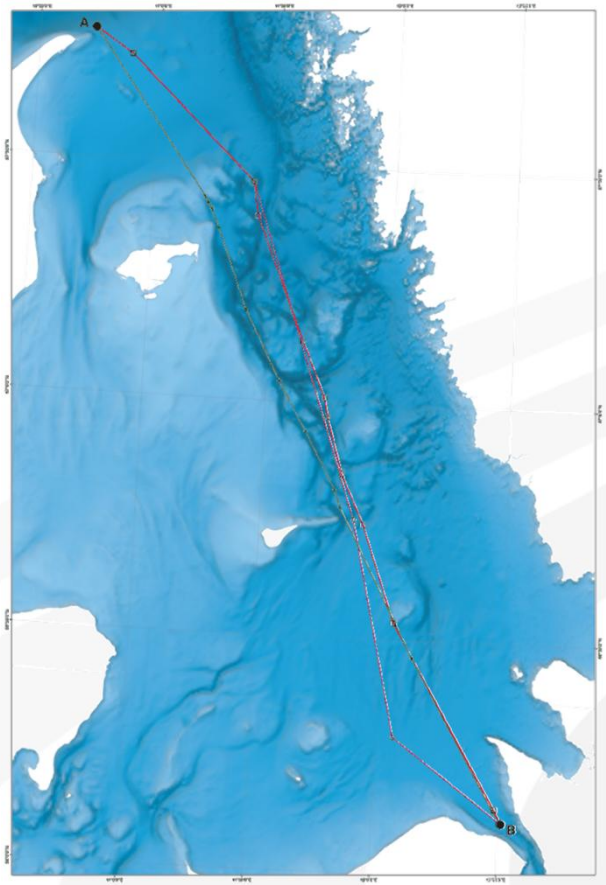
FAMOS Odin - Fuel efficient routing and UKC Management



A workshop regarding the use of draft S-102 data models to improve fuel efficient routing and UKC management has been carried out.

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THANK YOU FOR LISTENING

LANTMÄTERIET

BALTIC SEA HYDROGRAPHIC COMMISSION BSHC

HELCOM

EU STRATEGY FOR THE BALTIC SEA REGION FLAGSHIP

NLS FINNISH GEOSPATIAL RESEARCH INSTITUTE FGI

SMHI

SSPA

Liik enne vira sto

NOTHING IS IMPOSSIBLE, THE WORD ITSELF SAYS "I'M POSSIBLE"!
- AUDREY HEPBURN

EESTI VABARIIK VEETEEDE AMET

Geodatastyrelsen
Danish Geodata Agency

TALLINN UNIVERSITY OF TECHNOLOGY

DTU

LIETUVOS SAUGIOS LAIVYBOS ADMINISTRACIJA

Bundesamt für Kartographie und Geodäsie

BSH BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

GFZ Helmholtz Centre POTSDAM

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