



# OGS

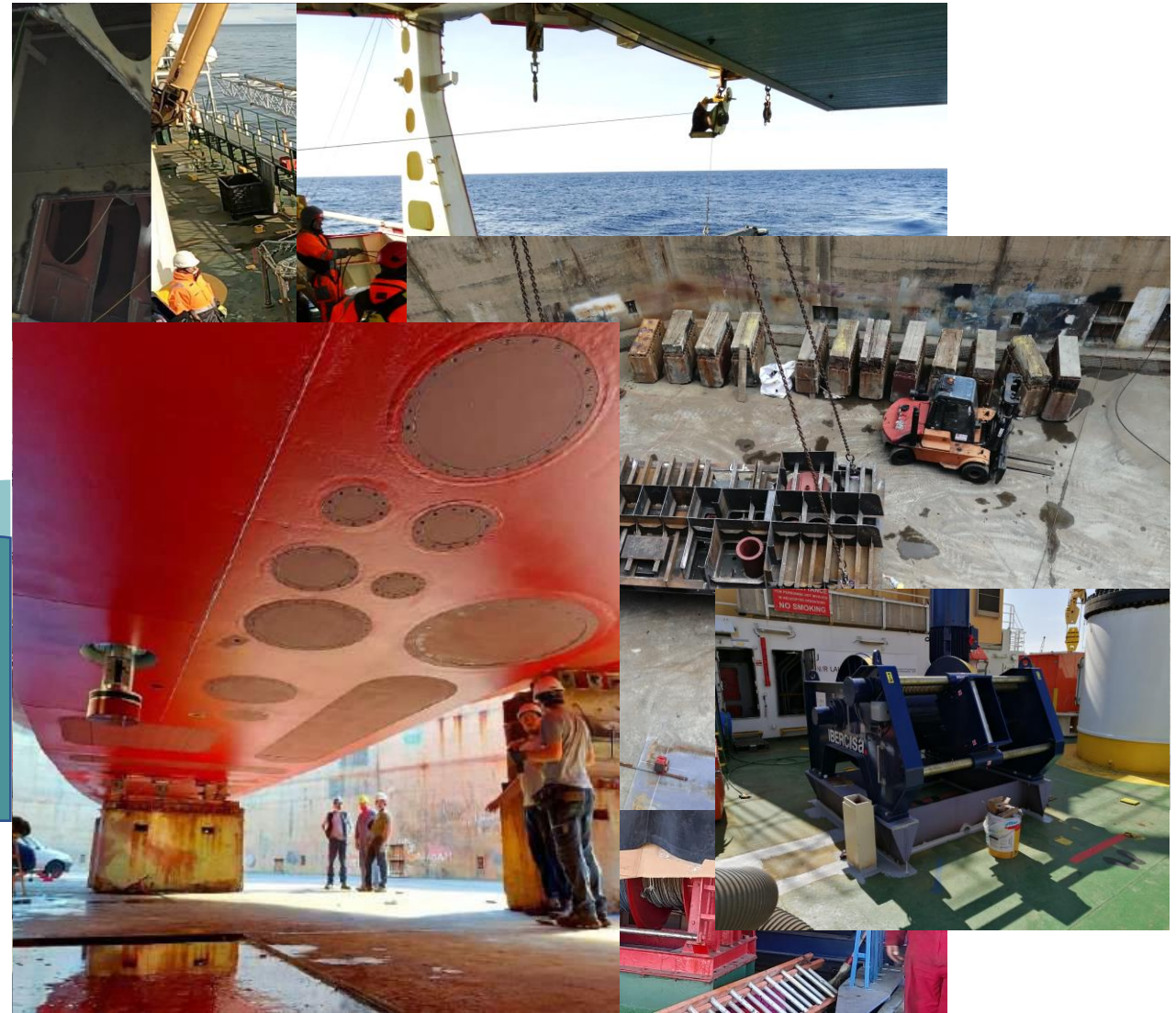
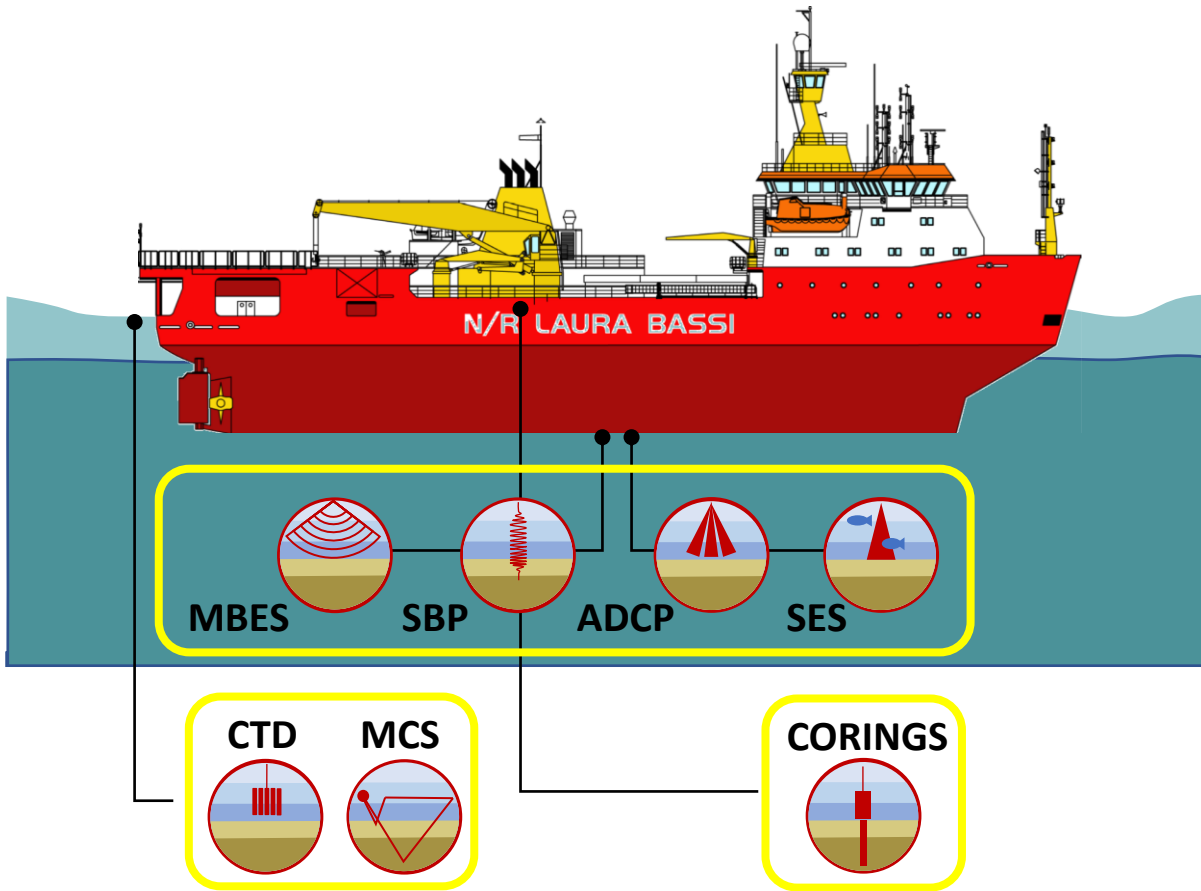
## Laura Bassi, one year later: the new systems used in the Polar expeditions and the challenges ahead

Francesco Coslovich, Riccardo Codiglia

24<sup>th</sup> ERVO Annual Meeting



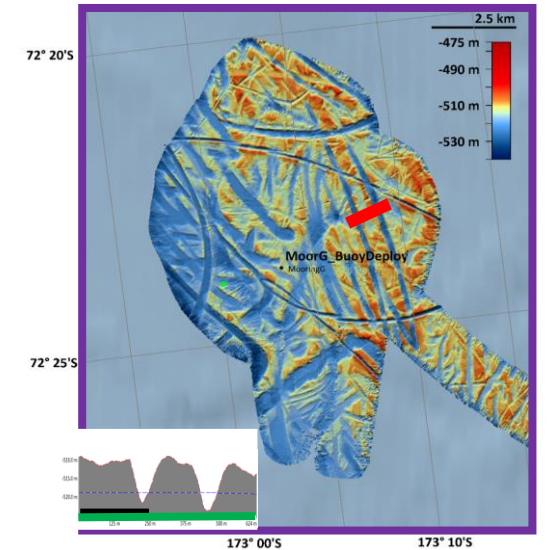
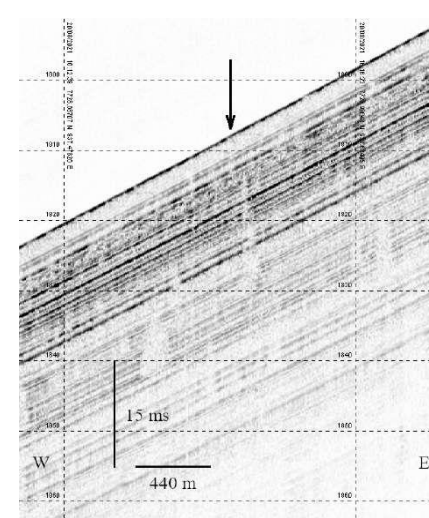
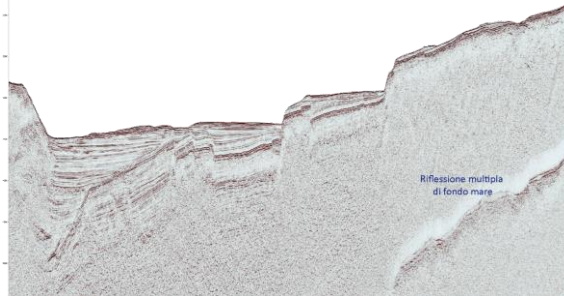
# The R/V Laura Bassi The Refitting of 2021







# The Polar Expeditions





# Improvements needed

- CTD and Carousel deployment:
  - Complicated deployment
  - Data affected by propellers and ship motions
- Coring deployment:
  - Complicated handling of piston corer
  - Usage of crane can be troublesome



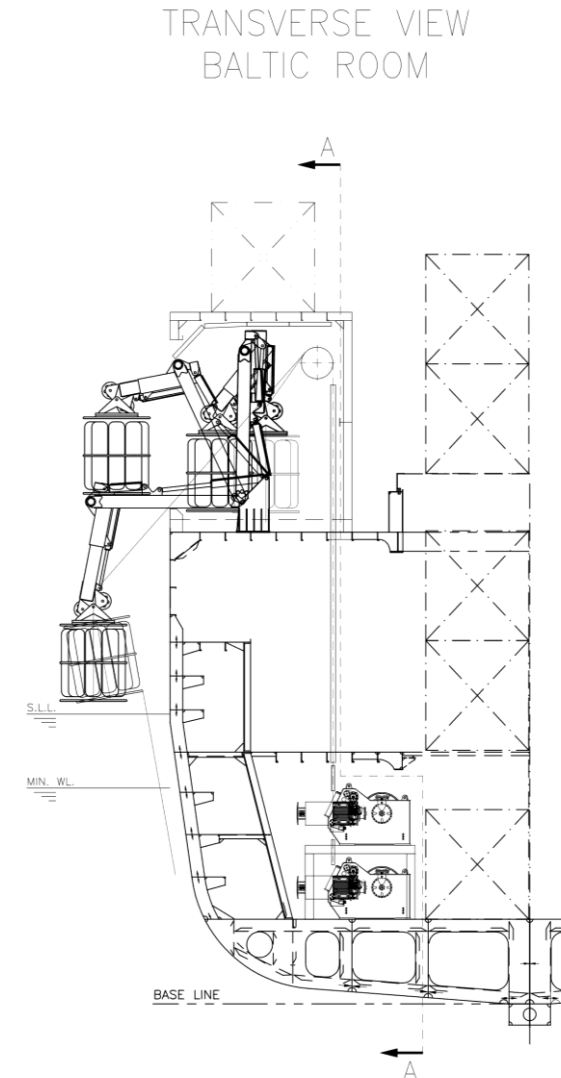
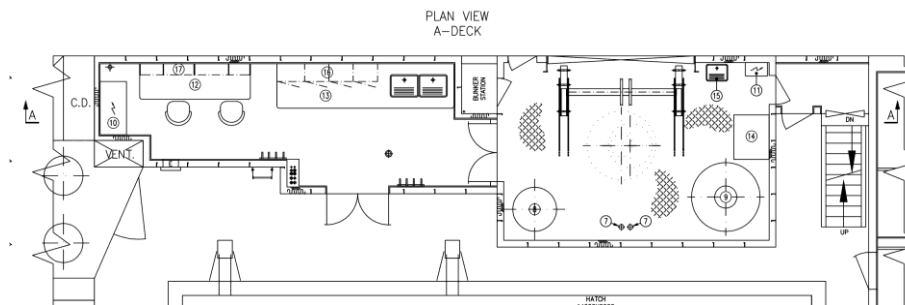
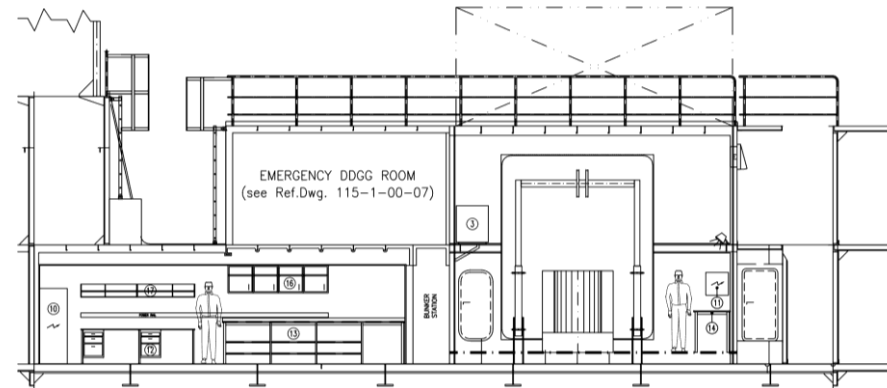
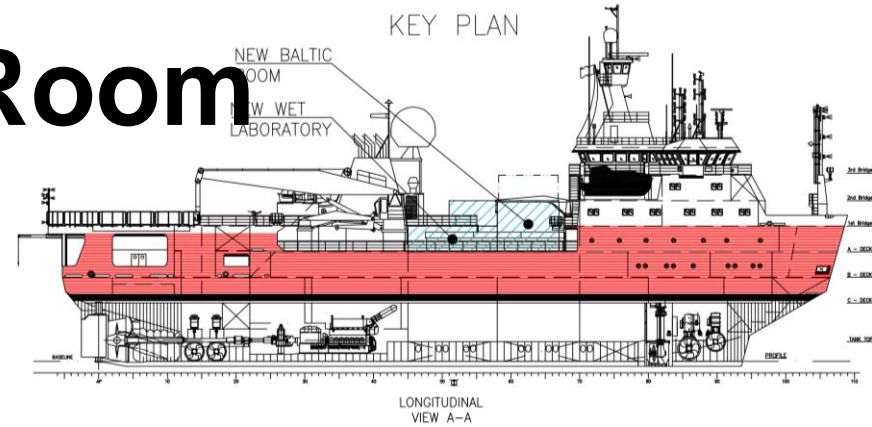
# Steps Taken

- CTD and Carousel deployment:
    - Complicated deployment
    - Data affected by propellers and ship motions
  - Coring deployment:
    - Complicated handling of piston corer
    - Usage of crane can be troublesome
- Baltic Room
- Frame



# The New Baltic Room

- Goals:
  - Reduce motions
  - Increase distance from propellers
  - Straightforward deployment
- Constraints:
  - Keep load capacity
  - Add a clean rosette

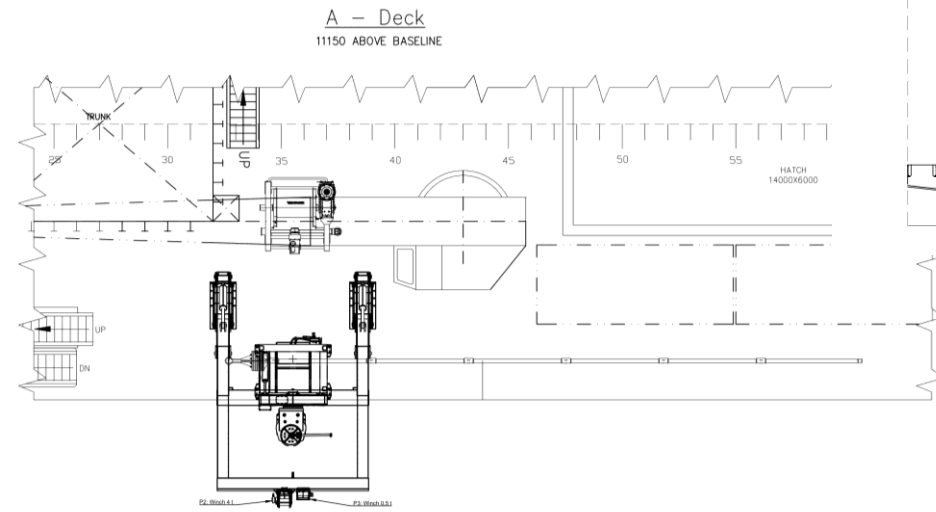
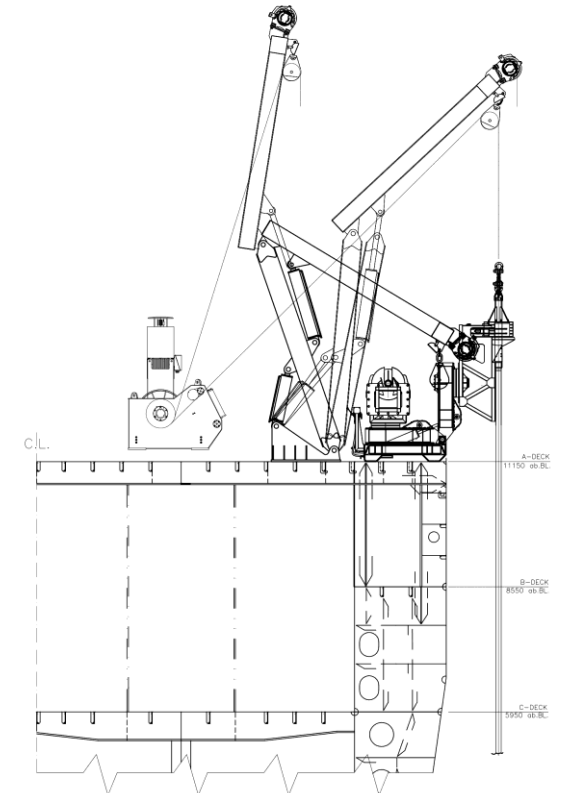
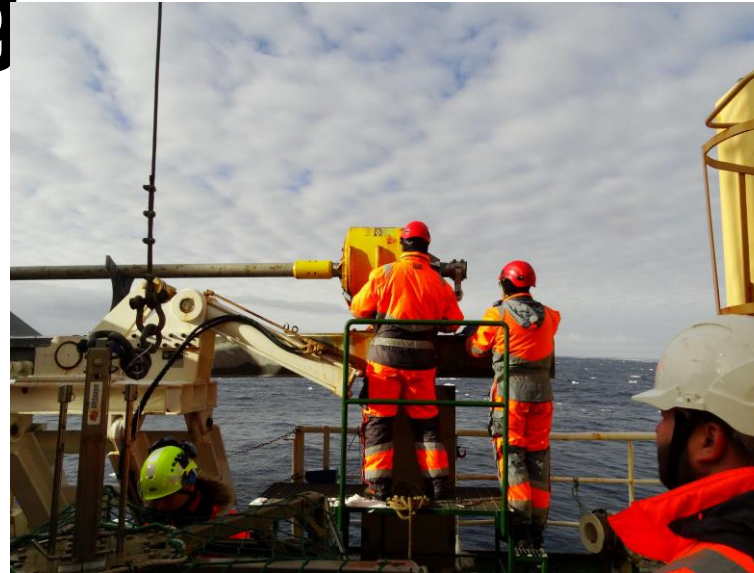






# Frame for Coring

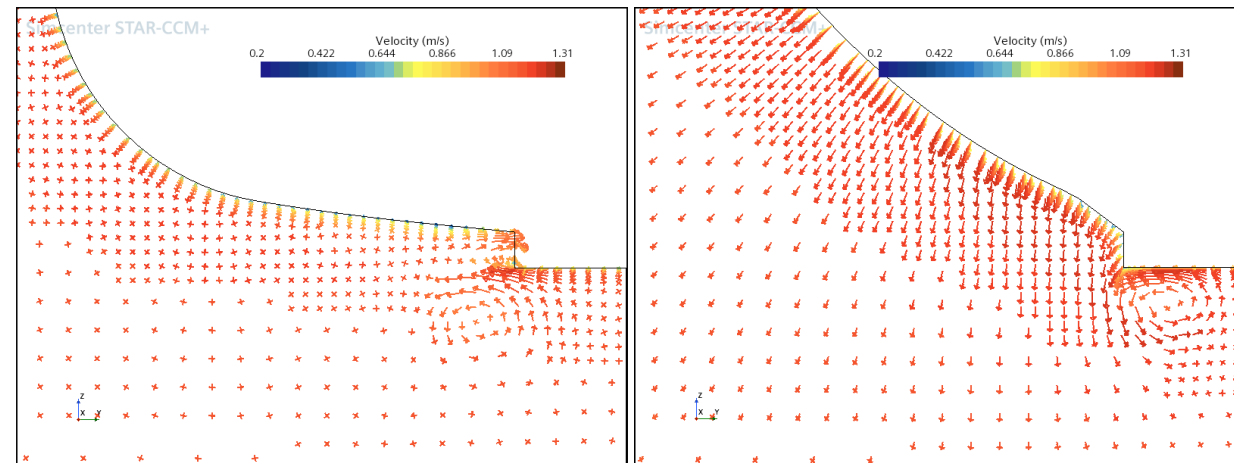
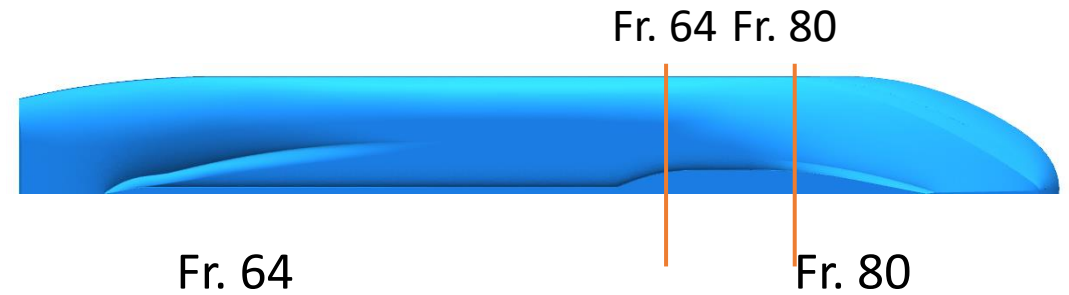
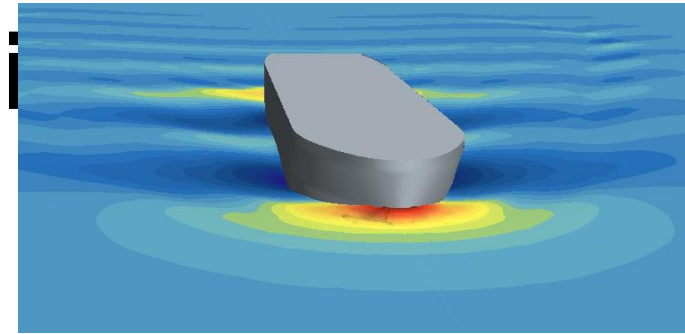
- Goals:
  - Lower resting position
  - Improve deployment
- Constrains:
  - Try to keep the crane
  - Allow for deployment of box-corer and multi-corer





# Computational Fluid Dynamics

- Cooperation with UniTs
- Validation of the model
- Investigation of local flow on acoustic equipment
- Benchmark for Naval Architecture







Thank  
you!