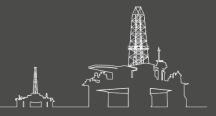
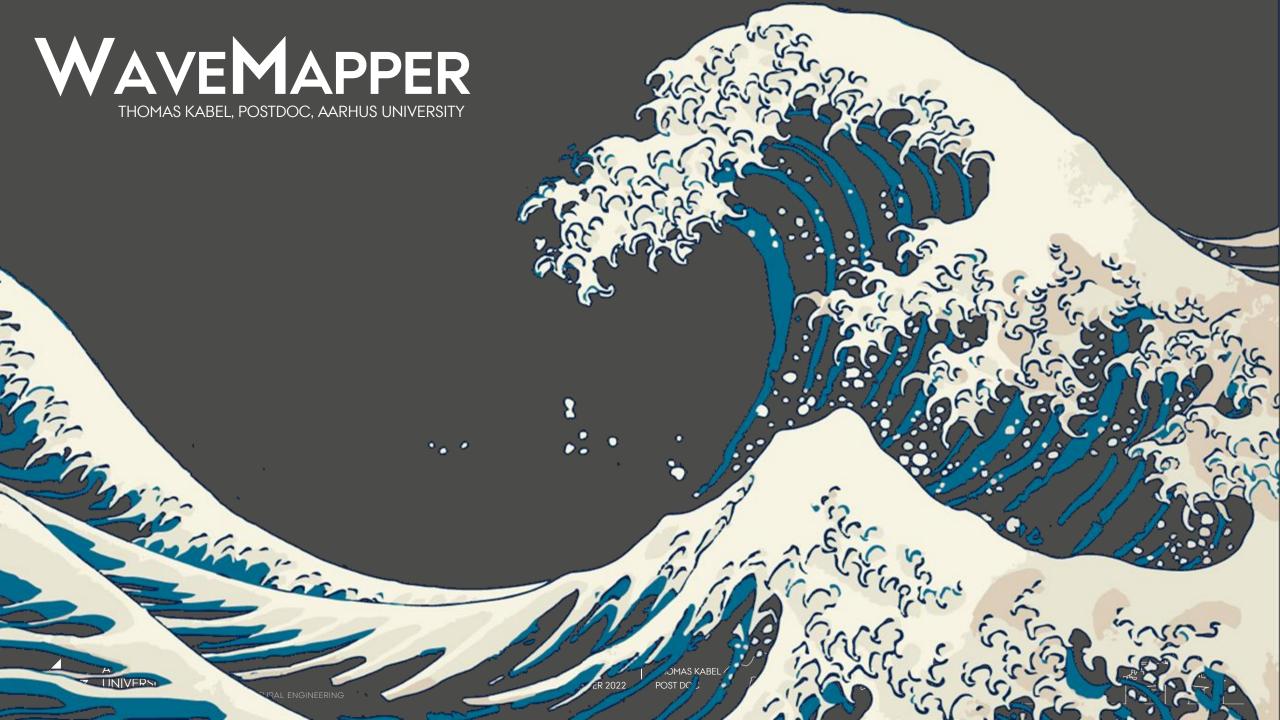






29 NOVEMBER 2022





THE PROJECT: WAVEMAPPER

A collaboration project funded by Danish Offshore Technology Centre

- 3 mio. dkkr project (400.000 Euro)
- Summer 2022 Summer 2024
- PI: Christos T. Georgakis
- Secondary investigators: Thomas Kabel & Julie C. Kristoffersen
- Joint project-partners: TotalEnergies and haw MetOcean ApS
- Collaborators: DHI











THE PROJECT

TotalEnergies article:
Extreme ocean
waves + new
technique is needed

PhD-Project: Initial project with Wave Mapper at full-scale

WaveMapper:
Extended
verification and
evolving methods





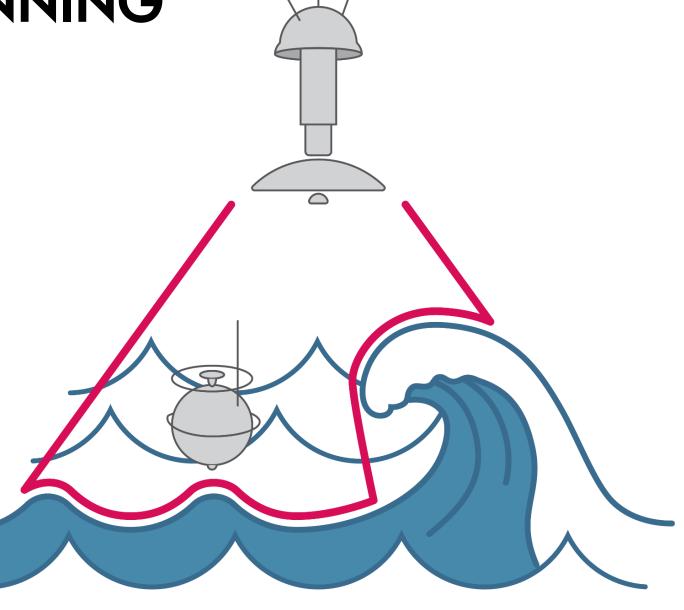
THE BEGINNING





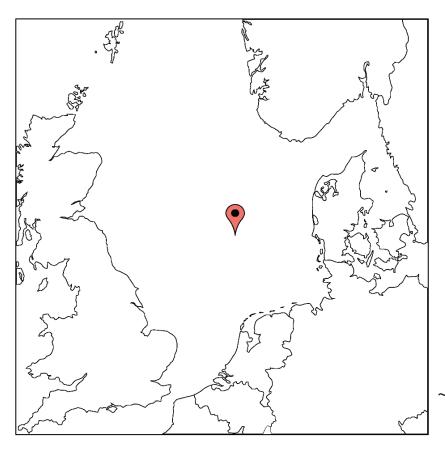
© Tychsen et al., OSCR2016 - TotalEnergies

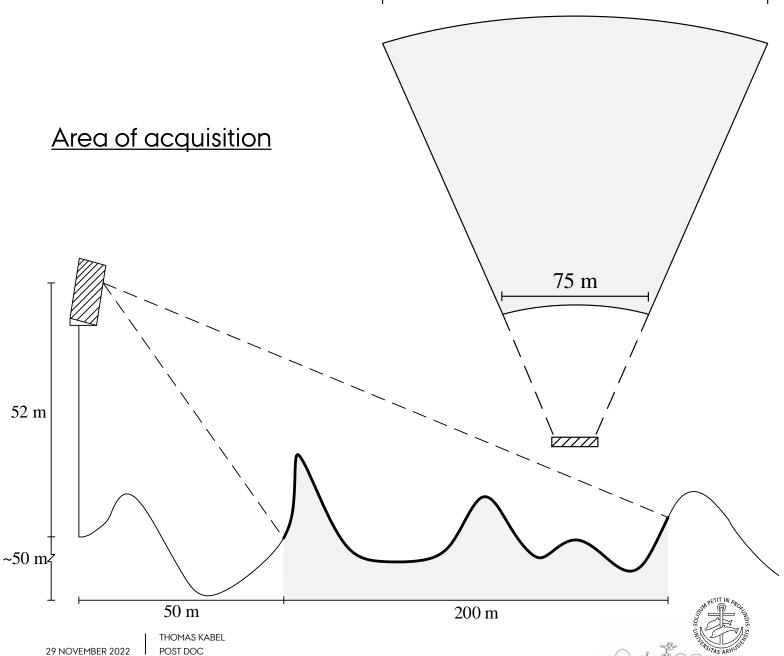
THE BEGINNING —





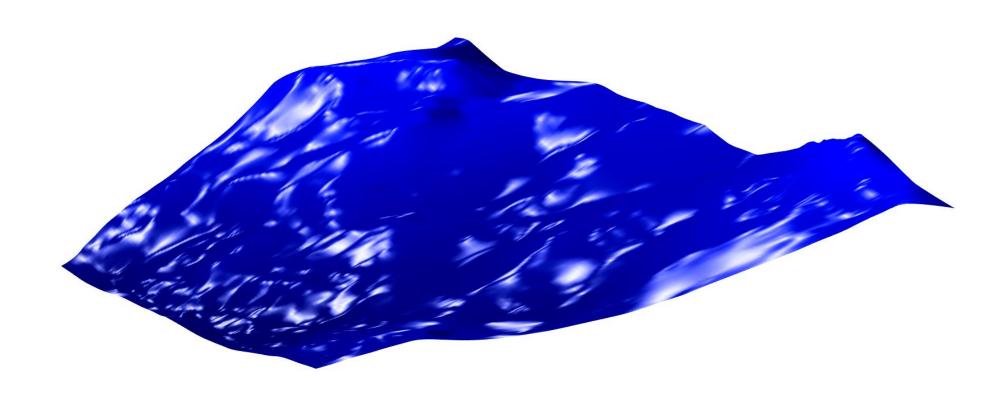
Location





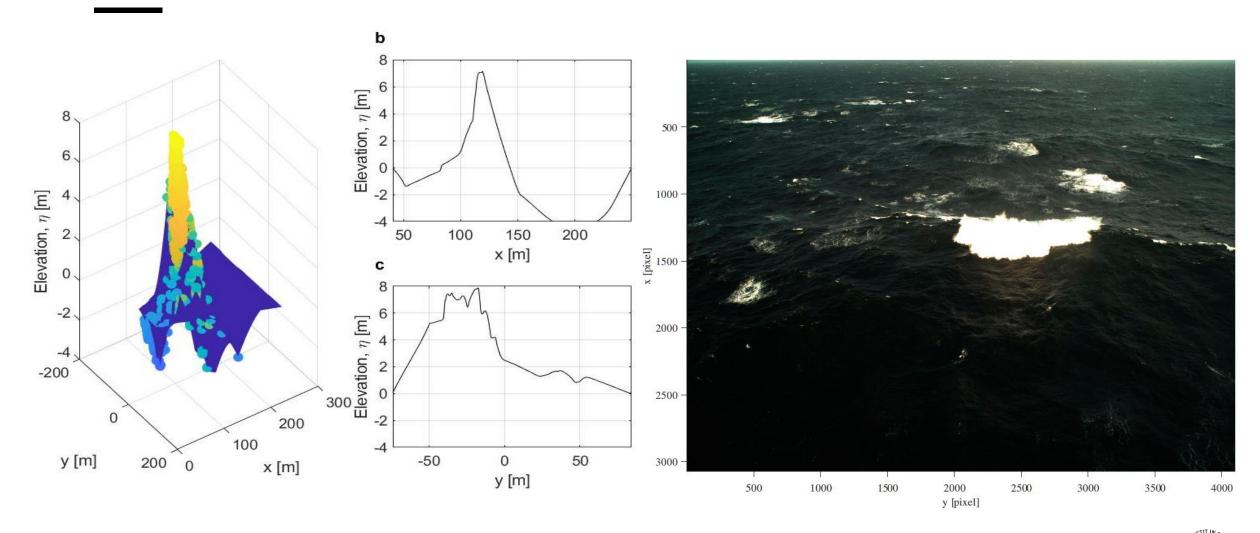
250 m







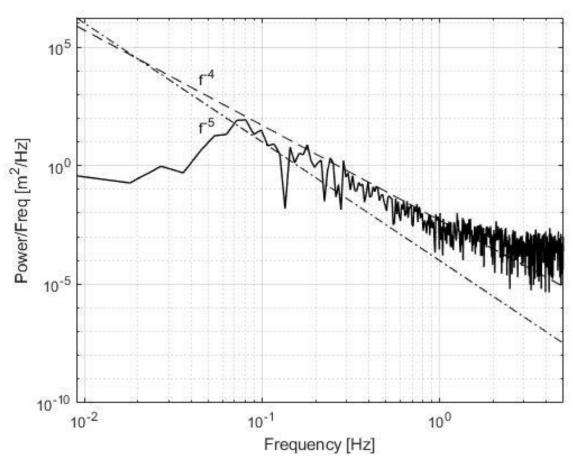


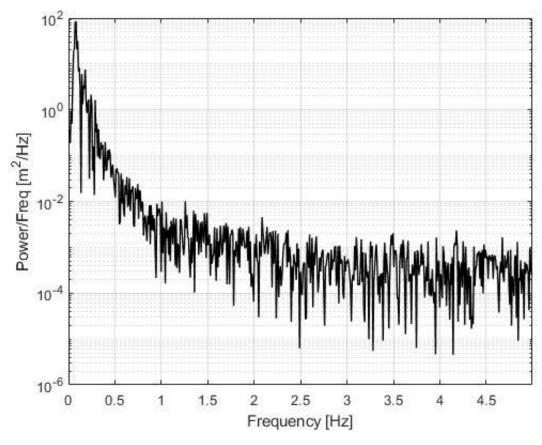






f⁻⁴: Zhakarov (1999) – tail decay









WAVEMAPPER

Validation

Comparison between four different methods/systems

Full-scale measurements for entire season

Evolution

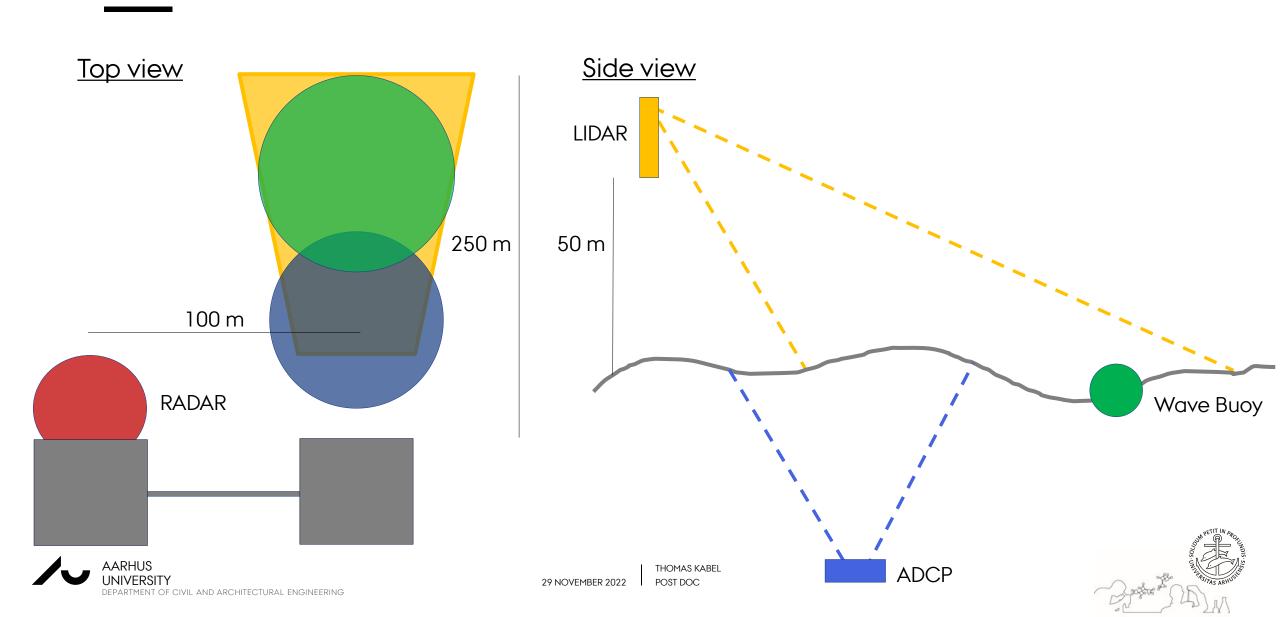
Increase resolution of data (space-time interpolation, more frames)

Evaluating on a new wave breaking data base, with multiple entries.





WAVEMAPPER: VALIDATION



WAVEMAPPER: EVOLUTION

