



Steven Mackinson

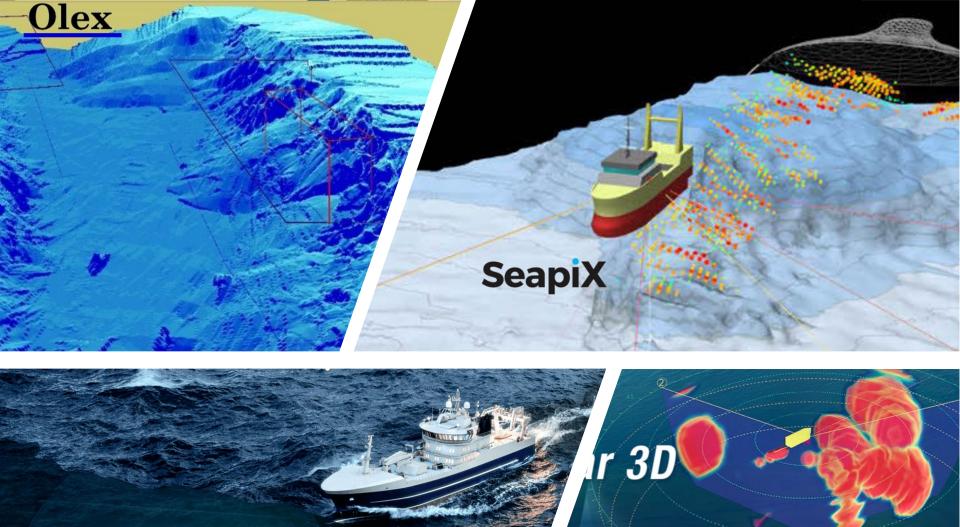
Chief Scientific Officer



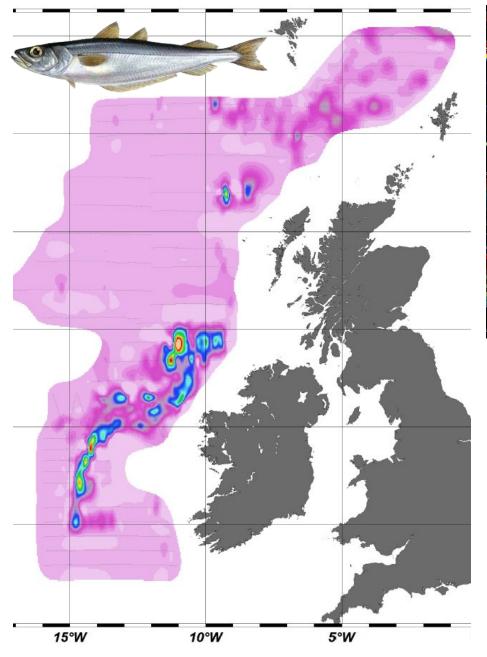


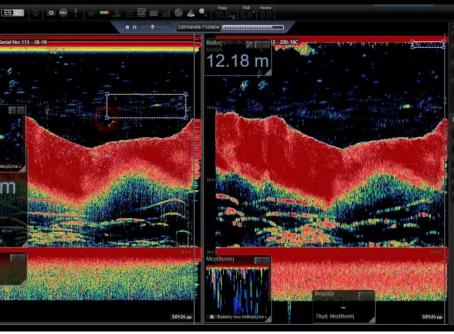
Point 1. Pelagic vessels are good acoustic research platforms











## SIMRAD ES80 =EK80





Point 2. Pelagic skippers are skilled professionals keen to learn

## For the following reasons:

- They want to be good at their job!
  - Efficiency = £
  - Skill = kudos
- 'Scientific-fishers' experiment and want to understand
- Naturalists at heart



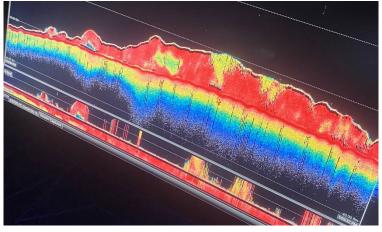


Point 3.
Knowledge
transfer is rapid
and empowering

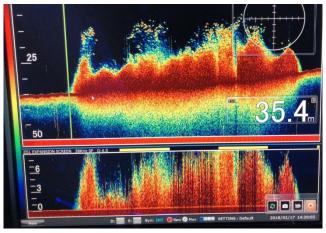
- Understand how surveys work
- Reduce misconceptions about scientists, surveys and their results (through interrogation!)
- Understand relevance to management
- (Sometimes) learn more about how to optimise their acoustic settings
- Learn about other non-target fish
- Develop respect for scientists



- Learn about fish distribution patterns - relevant to good survey design
- Get challenged to question why they do things in a certain way – and whether that is the best way
- Lessons in practical and useful problem-solving skills
- Learn how to interpret fish marks and behaviour
- Develop respect for fishermen





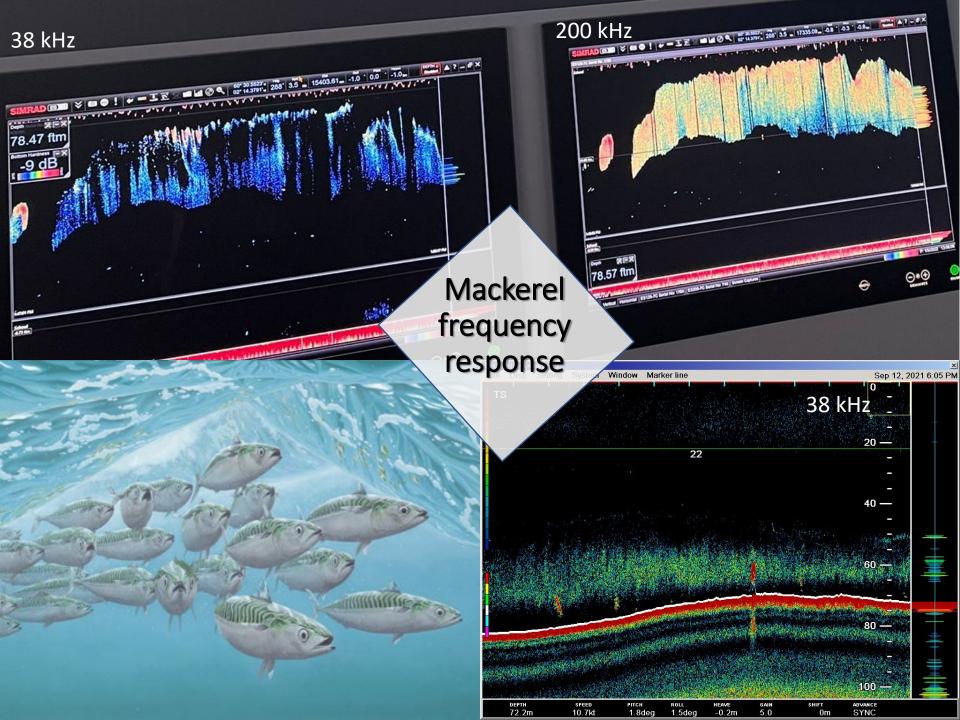








Sampling bag



Point 4.
Opportunity to unleash a goldmine of data and knowledge

- Opportunity to do better
- First need to have an awareness of industry Willingness & Capability
- Speak to your industry partners and think about a co-design process
- Reward innovation and feel good!



















































## POSTCARD



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