

Concept:

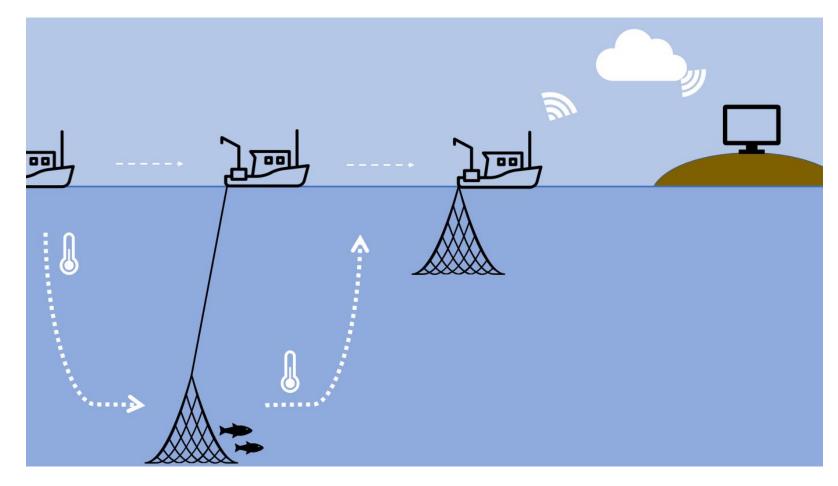


Sensors on fishing gear

Free ride down and back up water column

Little or no effort on the part of the fishermen

Fishermen fishing for fish, and now data



Why?

Ocean data is expensive..

Argo float, \$200 (€176) / 10 day profile



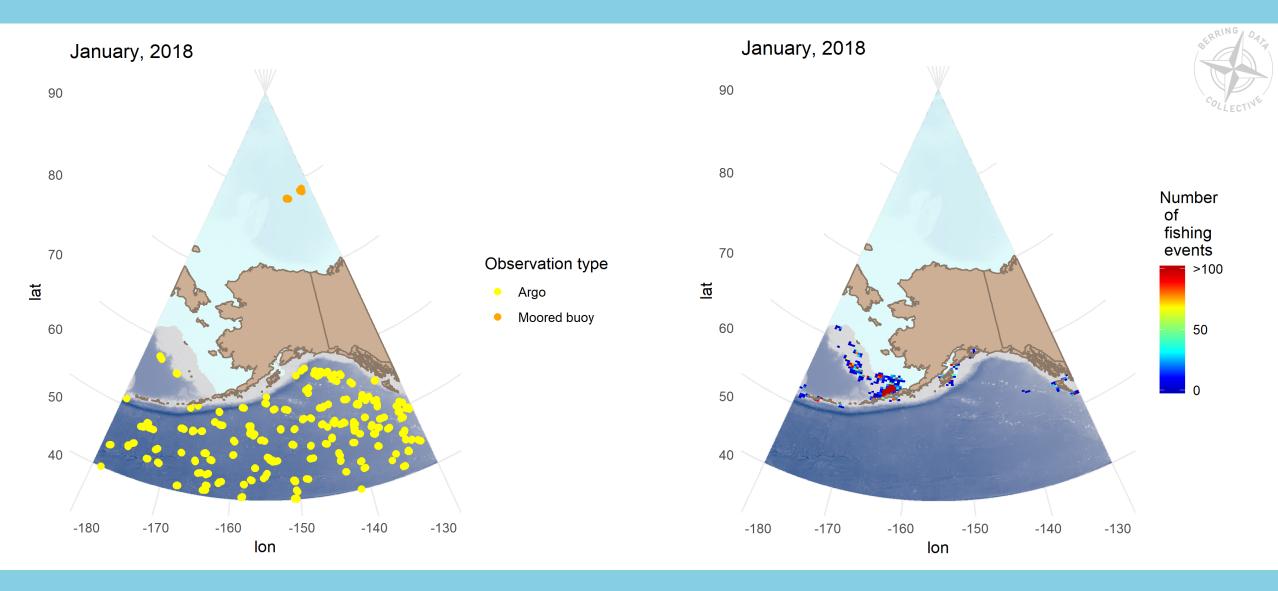
DTU Aqua, Research Vessel Dana



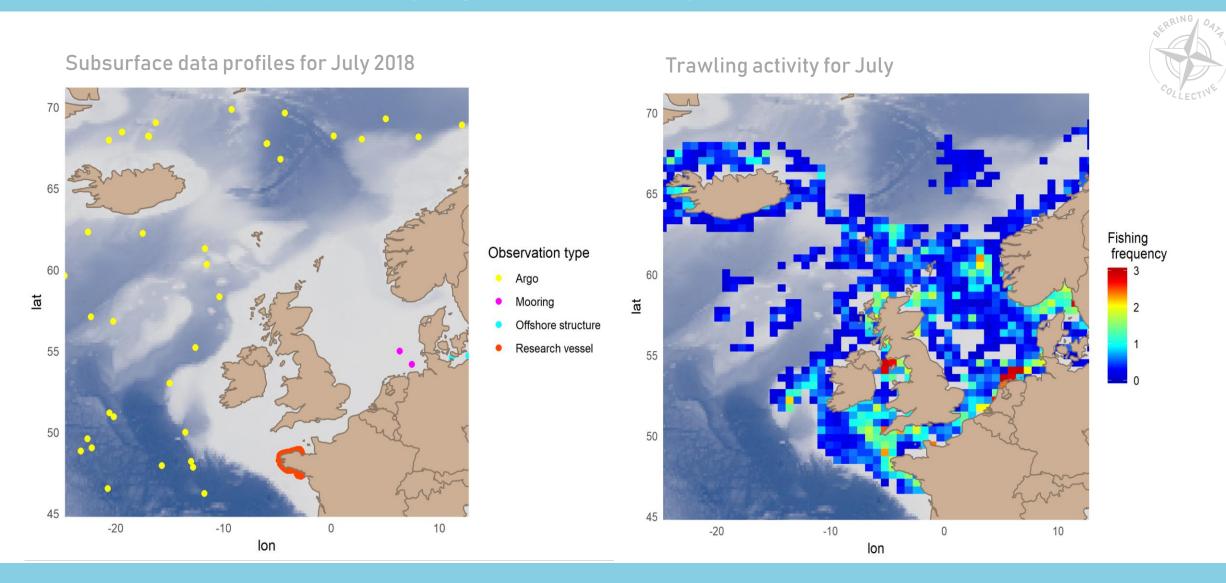


Cost effective data collection: key to long term monitoring

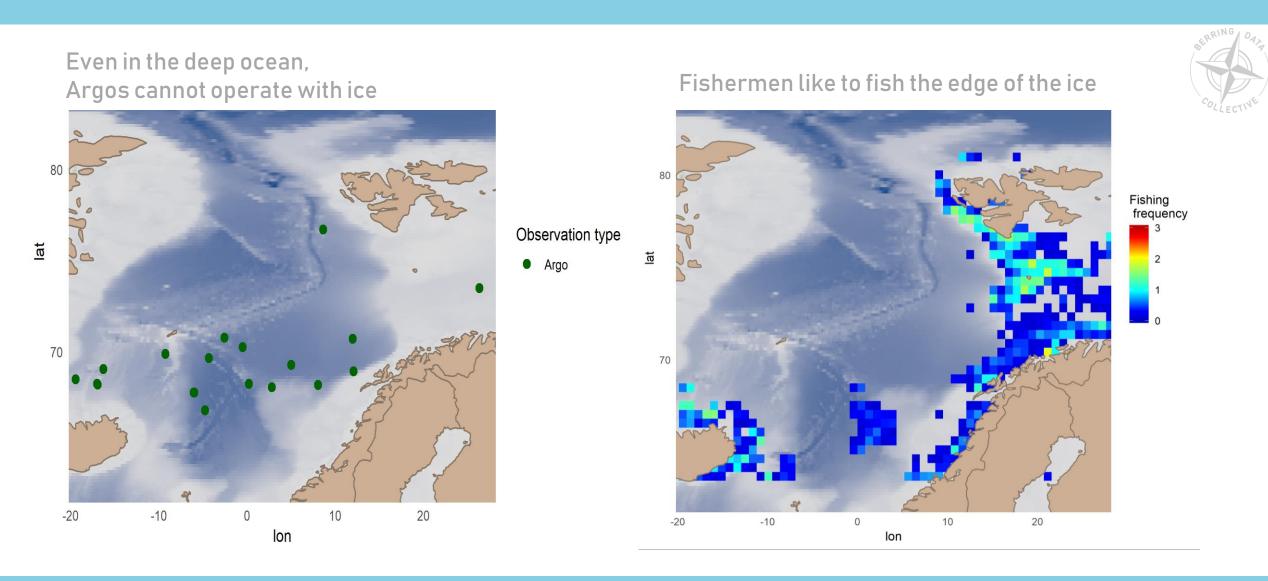
Holes in current subsurface observation programs: Shelf seas



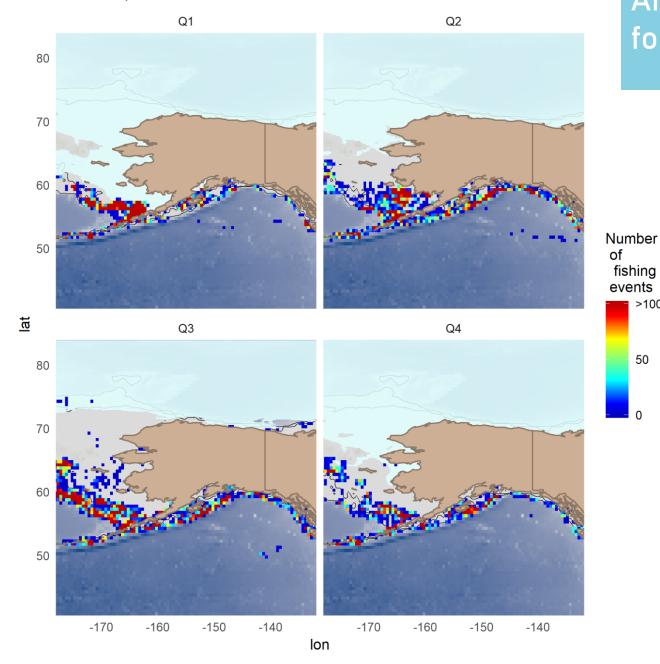
Shelf seas are where the majority of maritime activity takes place, and conditions change more rapidly than in the deep ocean



In the arctic there is a an even greater need for data: Climate change hot spot



ALASKA, 2018



Arctic, sea ice: some vessel based fishing followsice

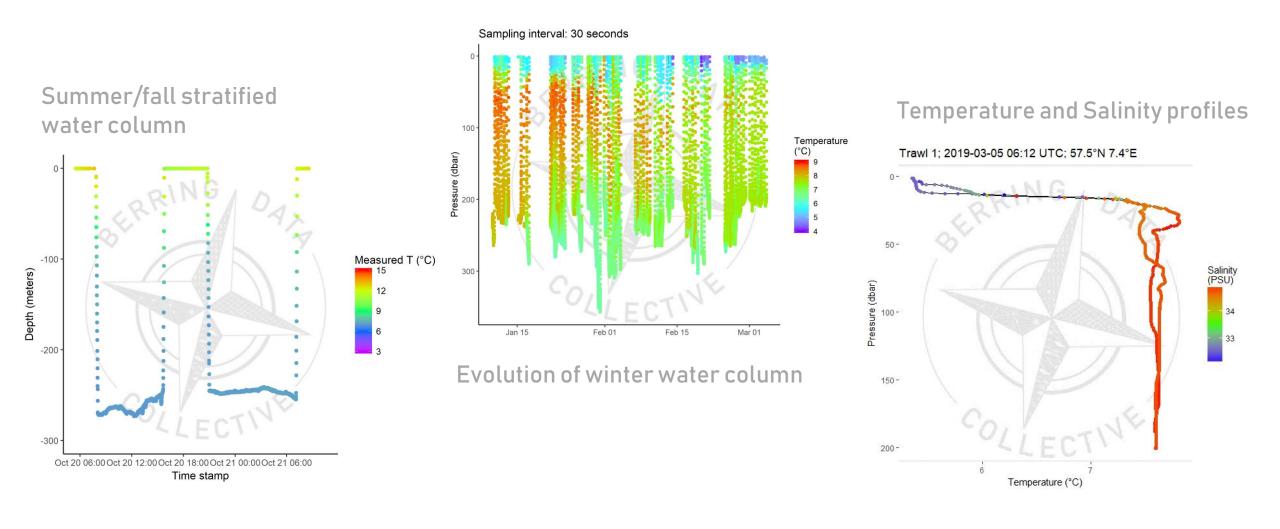


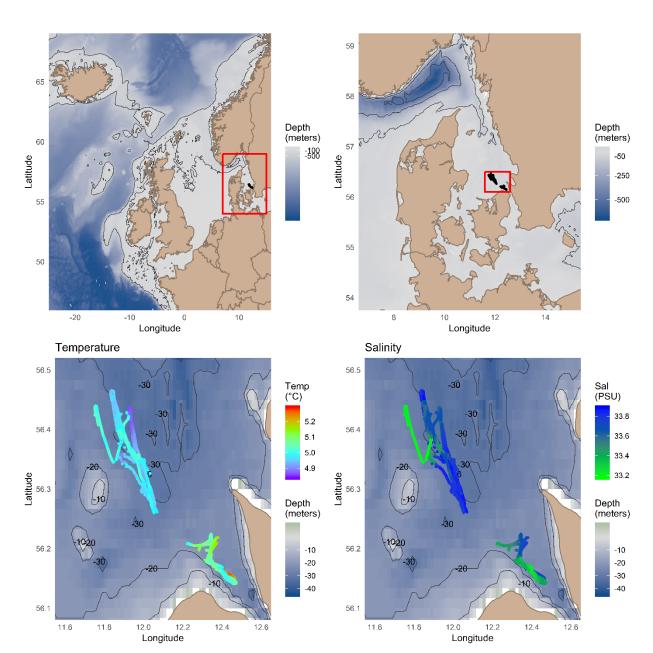
fishing

50

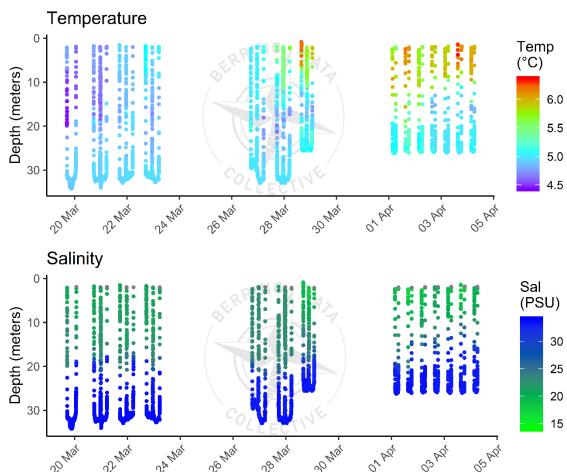
Beginning to look at working with indigenous ice hunters

The down and up profiles setting and hauling the gear for oceanographic modeling





Frequent samples in consistent areas

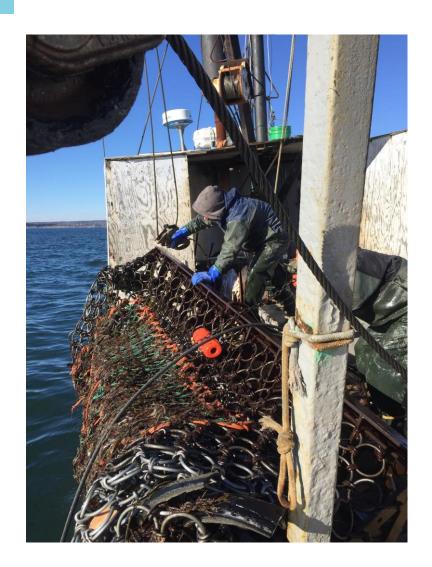


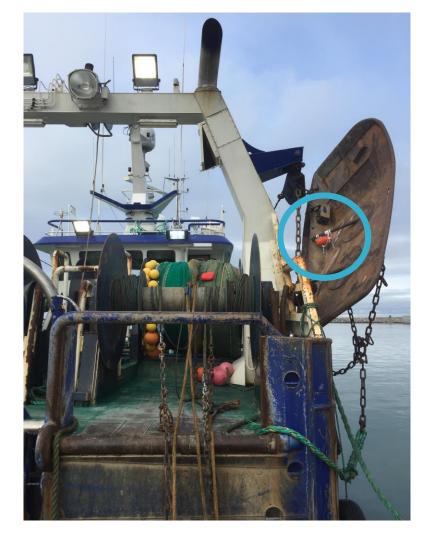
Our approach:

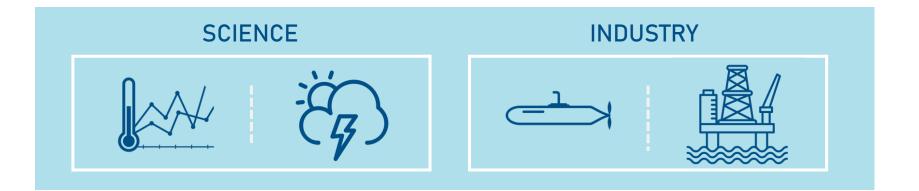




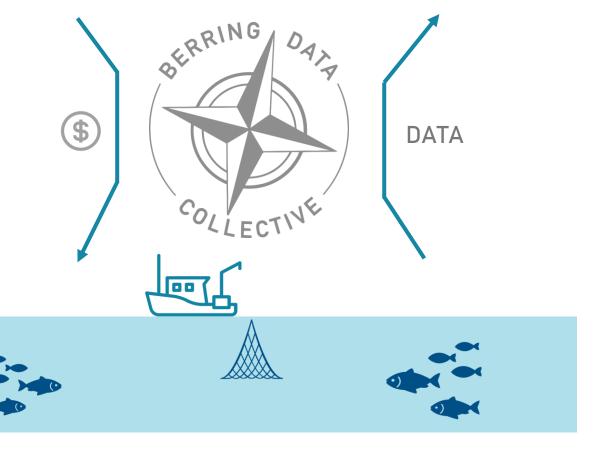
Working with fishermen in the Kattegat, Skagerrak, North Sea, Iceland, Gulf of Maine, and Bering Sea







Fishermen will be able to make money catching both fish and data



Interested potential data users:
DMI (Danish Met)
DHI
Niels Bohr Institute
Danish Navy
Icelandic Met Office
UK Met Office

Fishermen getting paid to collect data? Flipping the current paradigm.

Fishermen are collecting data on their own terms, and driving forward the necessary science

Ecosystem Based Fisheries
Management: Improving both the
environmental and economic
sustainability of fisheries





Thanks!



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