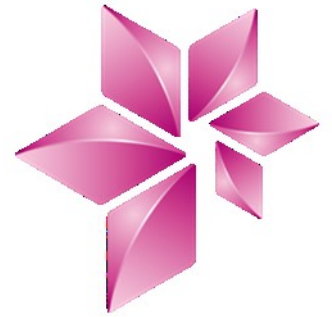




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UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS



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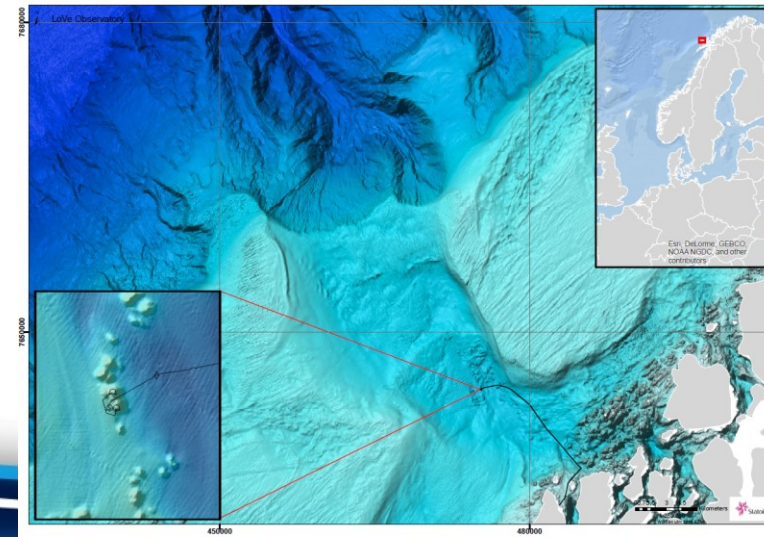
LoVe Ocean Observatory

3 General Assembly, 9-12 April 2018

Ingunn Nilssen and Anders Hermansen



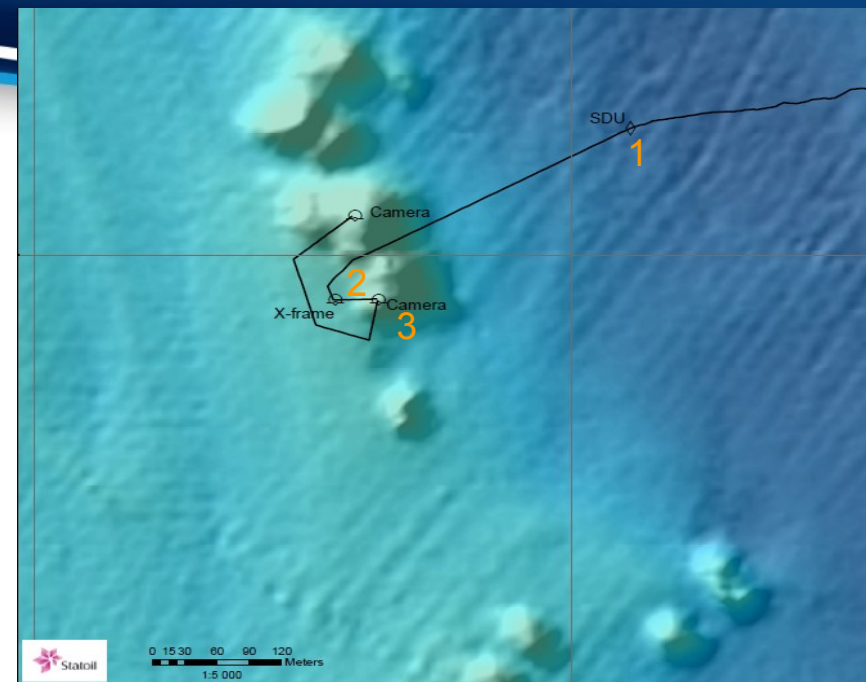
- Not opened for oil & gas activity
- Fisheries and tourism important sectors
- Characterized as “particularly vulnerable” in the integrated management plan for Lofoten and the Barents sea
 - Important habitat for many species
 - Spawning ground
 - Corals





The LoVe observatory

- A biological hotspot
- 12 km outside Vesterålen, ~250 m depth
- Cable from land
- Collaboration with Institute for Marine Research



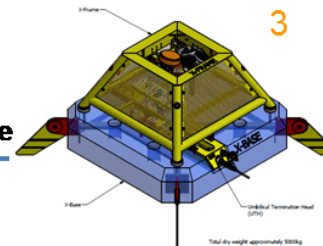
The power and communication connection point



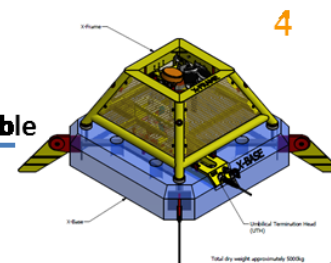
350m cable



50m cable



300m cable





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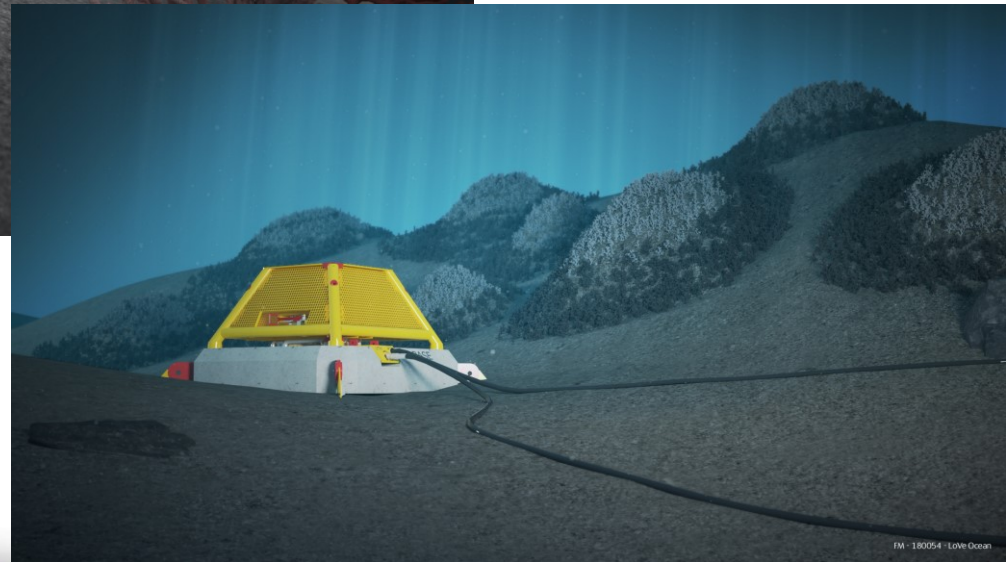
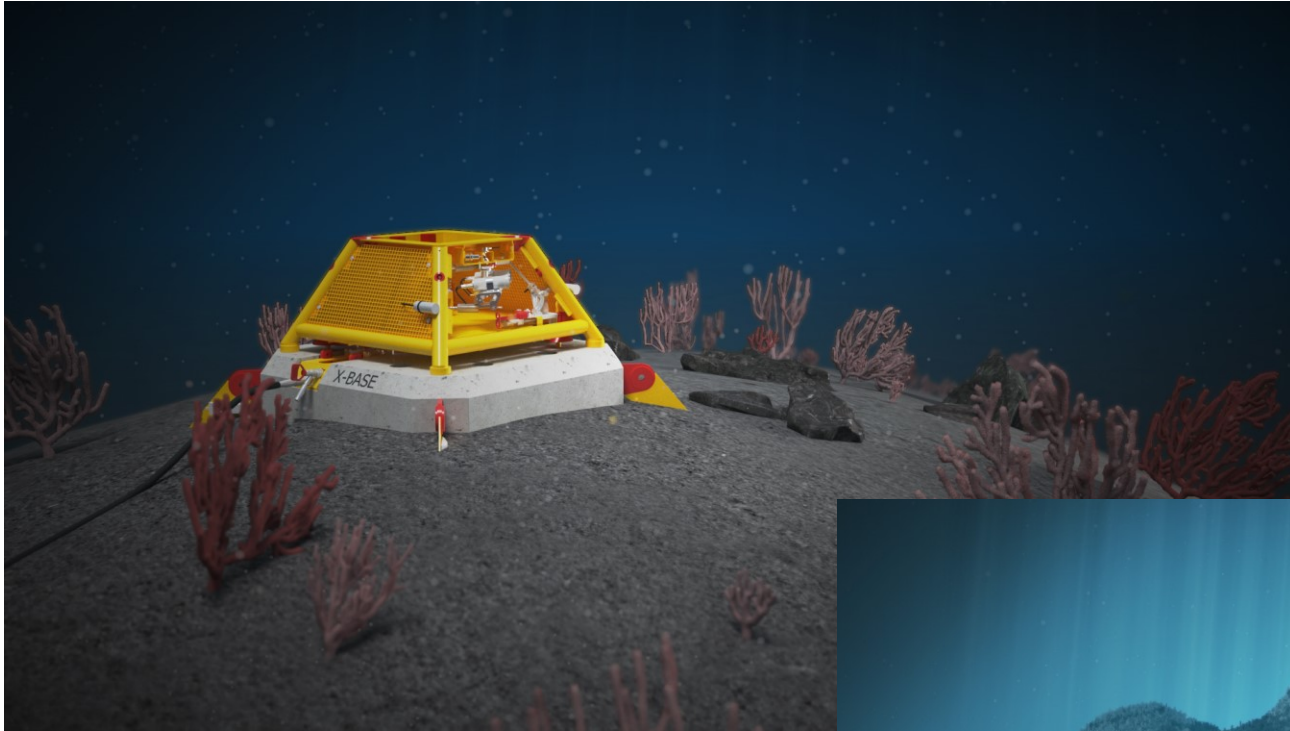
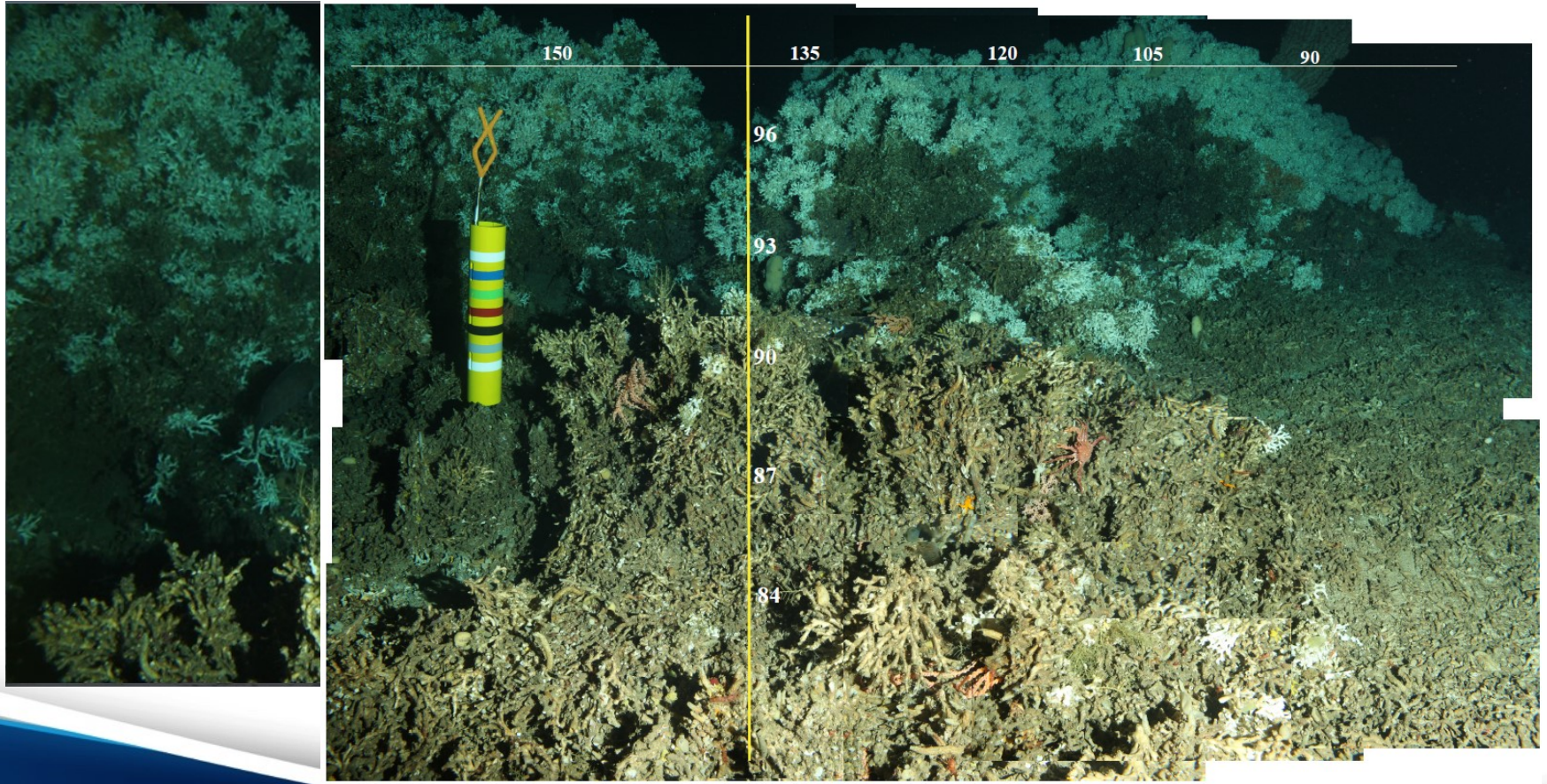
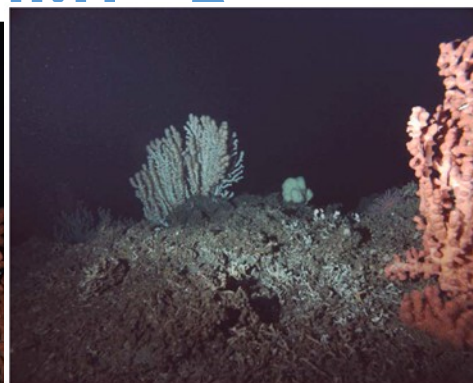
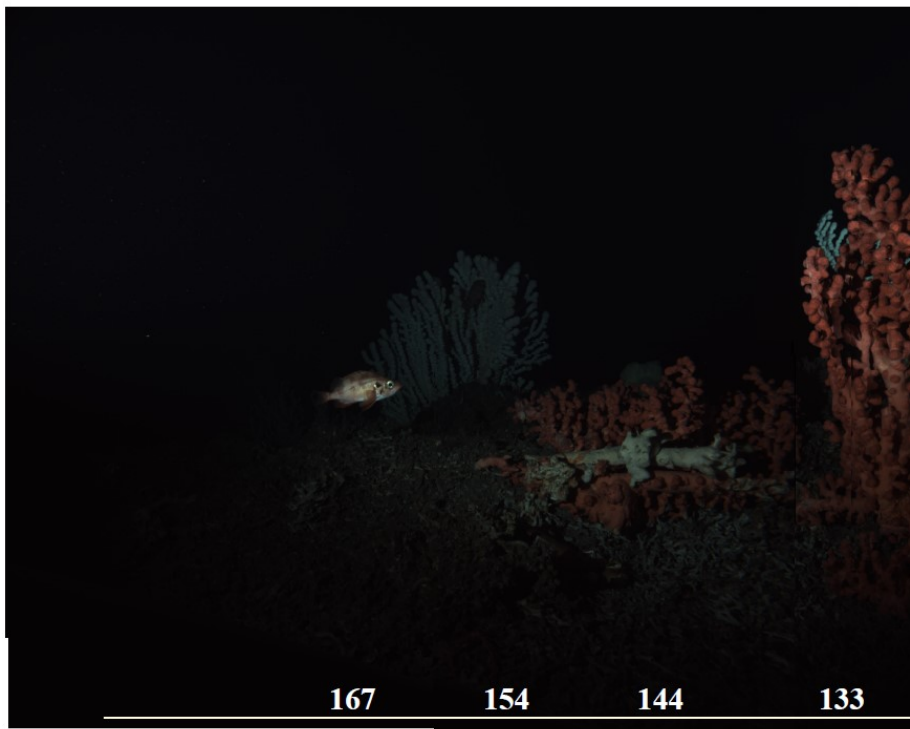
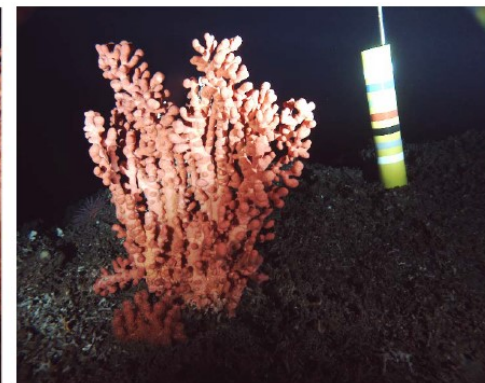


Photo mosaic from Satellite 1





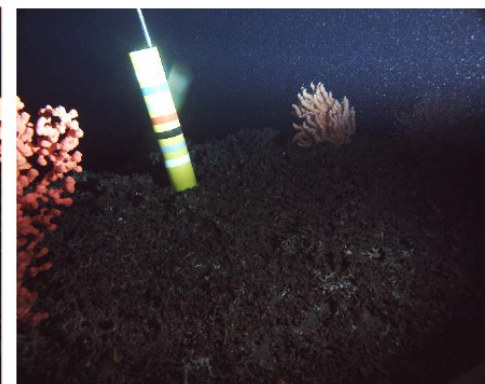
A1



C1



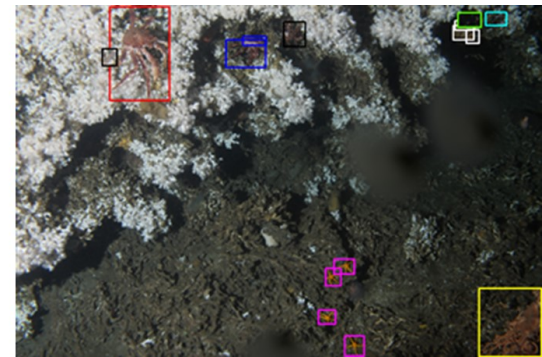
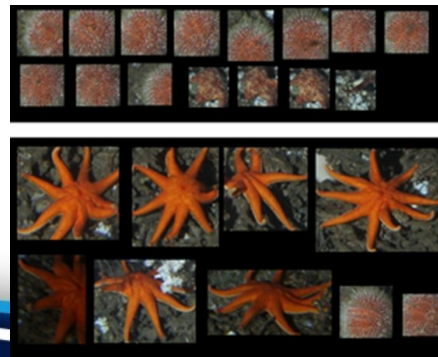
B1



D1

Use of photos from Love

- Data of high temporal resolution and coverage
 - Enables establishment of natural variations along and between years
 - Screening of what species to expect and when
- New technology and analytical methods for environmental monitoring
- Improved experimental set-ups
 - Use new knowledge from field as input to standardisation and comparison of results





Data presented and available for download at
<http://love.statoil.com>



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Thank You!



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Image credit: BGS