

Marine Science Perspective

Group B

Disciplines

- Ocean sciences
- Marine research
- Geosciences
- Oceanography
- Marine biology
- Marine technology



2010-2011:

Fjord (Masfjorden,
Hardanger)

2012-2016:

Vesterålen Margin

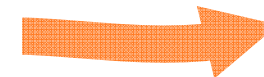
Svalbard Margin

Ocean Ridge Demo Mission

After 2016:

Svalbard Ocean Ridge

Snøhvit



Main surface currents

NOON

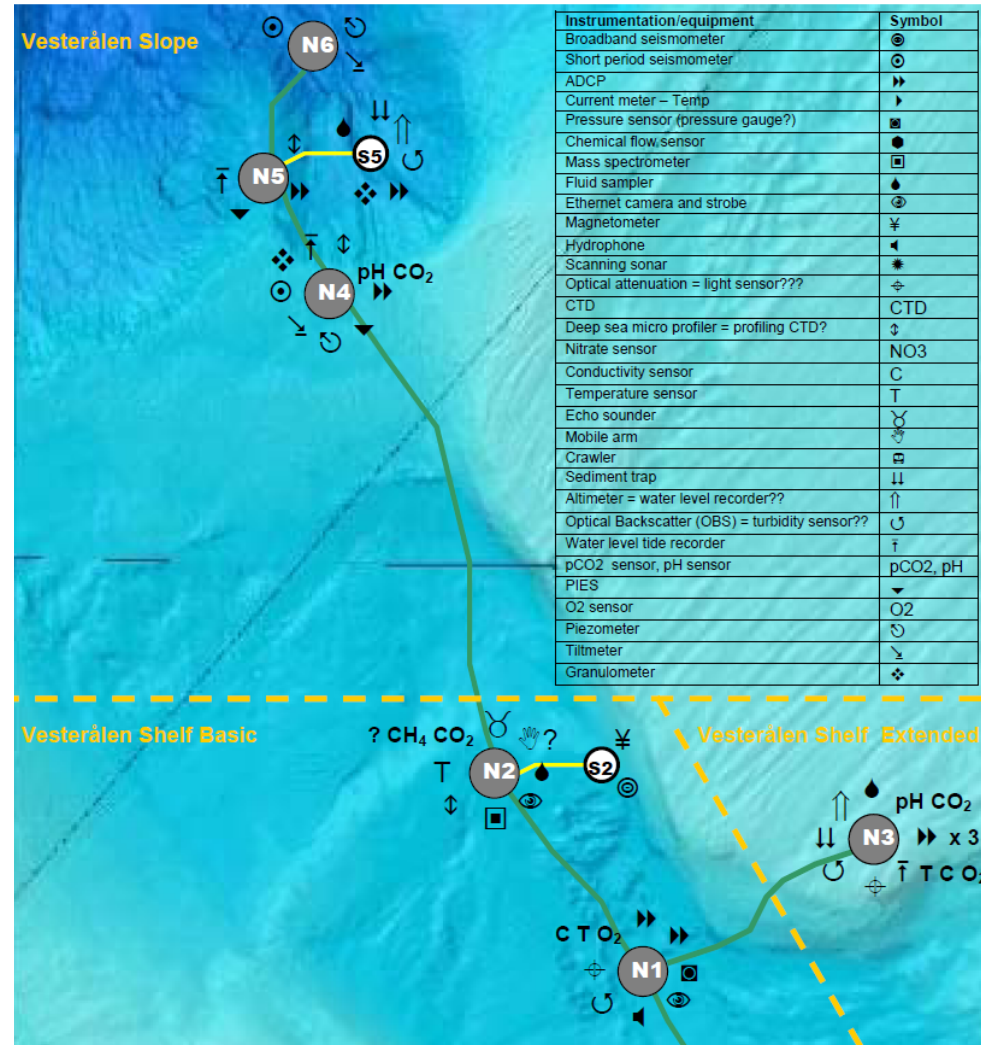
Norwegian Ocean Observatory Network

Fjord (Hardanger)

- Natural ecosystem dynamics
- Cold water corals
- Effect of fishing activity and other human impacts

Vesterålen

- Each observatory:
 - Currents
 - Temperature
 - Acoustic monitoring of biomass, etc.
- N1: coral reef
- N2: active venting system, seismology
- N3: NCC and sediment transport
- N4 – N6: geohazard, NAC and benthic boundary layer turbulence, sedimentation

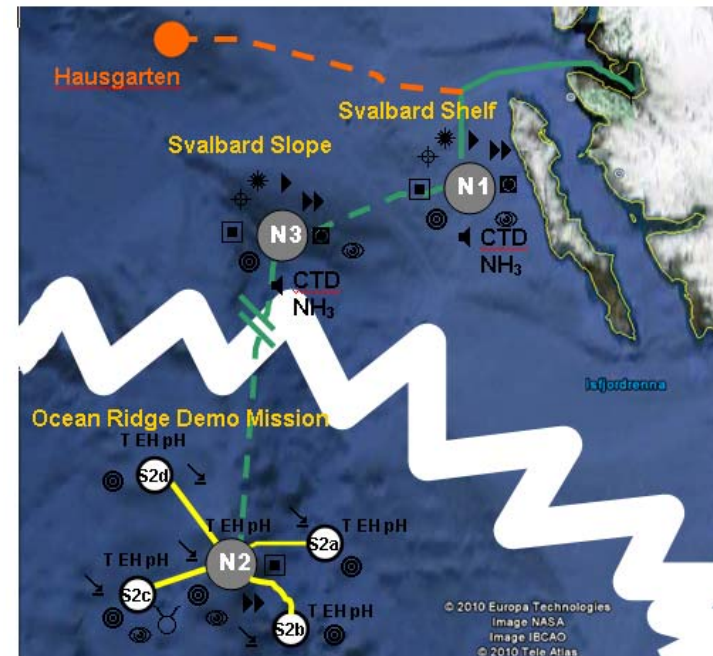


NOON

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Svalbard / Ocean Ridge

- Geodynamic processes at plate margins
- Hydrothermal processes, water-rock interactions and formation of mineral deposits
- Deep-sea ecosystems and life in extreme environments
- Deep ocean circulation
- Environmental consequences of deep-sea mining
- Natural CO₂ leakage and their environmental effects



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Snøhvit (Barents Sea)

- Detection of subsea leaks of natural gas and possible leaks of CO₂

Discussion

- Which companies and/or institutions are interested in the COSMOS project?
- What kind of competence/expertise and technology can you provide?
- Ideas for R&D projects
- General feedback on the project
- Topics not covered?
- Are our locations relevant?