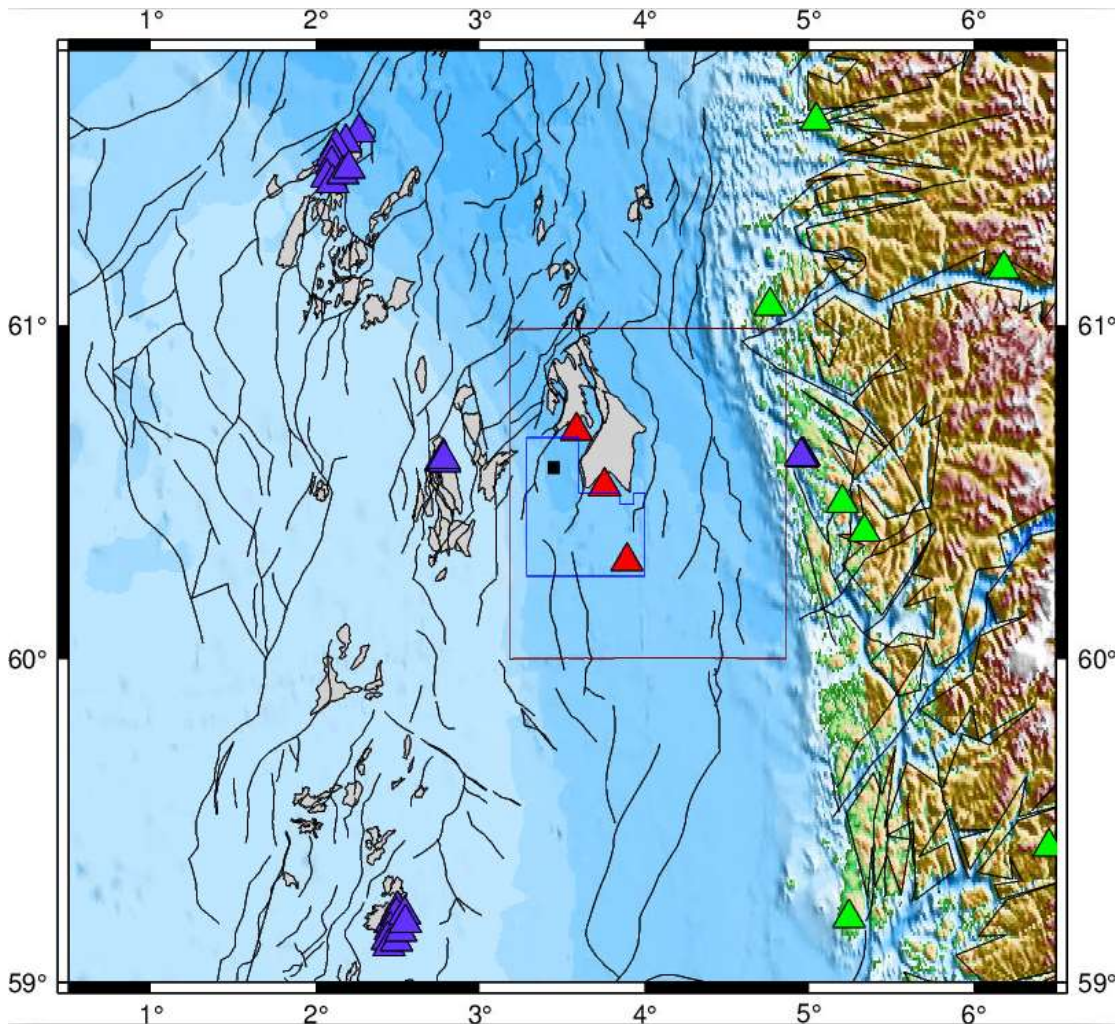


# HNET3 Project Overview

## Seismic Monitoring Network for the Horda Platform Region (H-Net) Project



**Project** runs from May 2021 to April 2024 with a budget of 10MNOK

**Project goal:** Efficient data collection, processing and interpretation in support of baseline seismicity assessment for CO<sub>2</sub> storage the Horda Platform region

**Project participants:** Equinor, Shell, TotalEnergies, Northern Lights, NORSAR, University of Bergen and Gassnova

Figure shows background seismicity monitoring network for the Horda platform region:

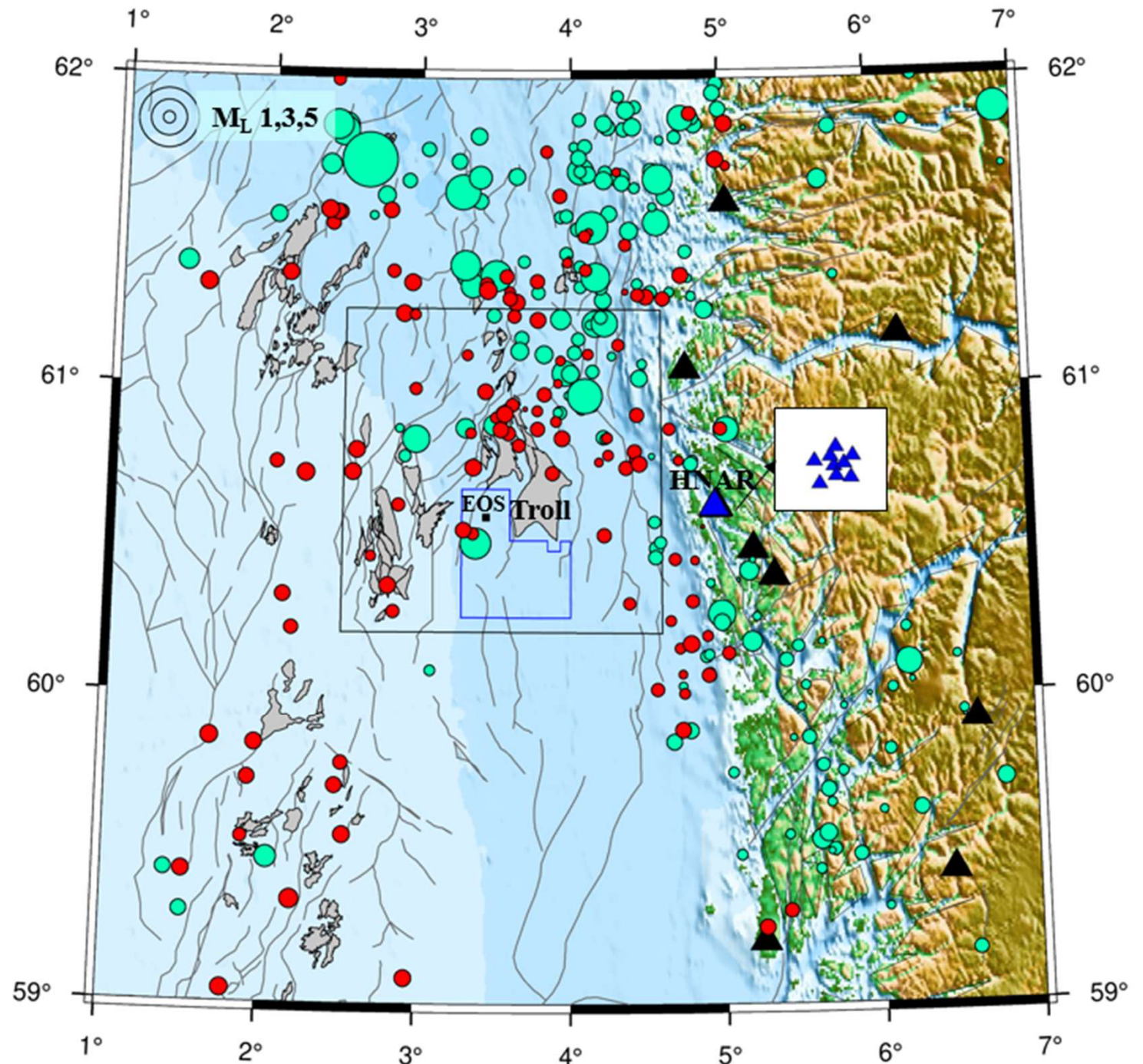
- Broadband stations from the NNSN
- Selected offshore geophones (Grane, Oseberg and Snorre fields)
- Onshore HNR Broadband array
- Broadband OBS deployed in late 2021.



## Technical highlight

### HNAR array processing in the area of interest

- Period analysed = June 2020-May 2022.
- Red events = detected only by HNAR array (blue triangles).
- Green events by both NNSN (black triangles) and HNAR (blue)
- *Findings:* the HNAR array gives significant improvements in detection and reduces location uncertainty, but is best used together with offshore and onshore detectors
- Ongoing work to demonstrate value of deploying offshore nodes



Manuscript submitted to *Seismological Research Letters*

## Background seismicity monitoring to prepare for large-scale CO<sub>2</sub> storage offshore Norway

Zoya Zarifi<sup>1\*</sup>, Andreas Köhler<sup>2</sup>, Philip Ringrose<sup>1</sup>, Lars Ottemöller<sup>3</sup>, Anne-Kari Furre<sup>1</sup>,  
Annie Jerkins<sup>2</sup>, Volker Oye<sup>2</sup>, Roya Dehghan Niri<sup>1</sup>, Roger Bakke<sup>1</sup>

<sup>1</sup>Equinor

<sup>2</sup>NORSAR

<sup>3</sup>University of Bergen

# Seismological Research Letters



Advanced Search

[Archive](#) [Content](#) [About The Journal](#) [About the Society](#) [SSA Member Sign In](#)



Current Issue  
Volume 93, Number 4, July 2022

[View This Issue](#)

Impact Factor: 3.754 (24 of 88 in geochemistry/geophysics)