

## North Sea monitoring in the SHARP Storage project

Voss, Peter; Kettlety, Tom; Martuganova, Evgeniia; Kühn, Daniela; Wienecke, Susann; Schweitzer, Johannes; Weemstra, Cornelis; Baptie, Brian; Dahl-Jensen, Trine; More Authors

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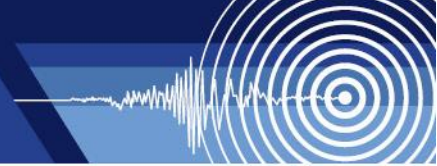
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## ESC2024-S21-550

### North Sea monitoring in the SHARP Storage project

Peter Voss<sup>1\*</sup>, Tom Kettlety<sup>2</sup>, Evgeniia Martuganova<sup>5</sup>, Daniela Kühn<sup>3,4</sup>, Susann Wienecke<sup>10,11</sup>, Johannes Schweitzer<sup>3,7</sup>, Cornelis Weemstra<sup>8</sup>, Brian Baptie<sup>9</sup>, Trine Dahl-Jensen<sup>1</sup>, Jerkins Annie<sup>3</sup>, Kendall J. Mickael<sup>2</sup>, Elin Skurveit<sup>6,7</sup>, The SHARP Team

<sup>1</sup>Geological Survey of Denmark and Greenland - GEUS, Copenhagen, Denmark, <sup>2</sup>Department of Earth Sciences, University of Oxford, Oxford, United Kingdom, <sup>3</sup>NORSAR, Kjeller, Norway, <sup>4</sup>GFZ German Research Centre for Geosciences, Potsdam, Germany, <sup>5</sup>Department of Geoscience & Engineering, Delft University of Technology, Delft, The Netherlands, <sup>6</sup>Norwegian Geotechnical Institute (NGI), Oslo, Norway, <sup>7</sup>Department of Geosciences, University of Oslo, Oslo, Norway, <sup>8</sup>R&D Seismology and Acoustics, Royal Netherlands Meteorological Institute (KNMI), De Bilt, The Netherlands, <sup>9</sup>British Geological Survey, Edinburgh, United Kingdom, <sup>10</sup>Research & Development Alcatel Submarine Networks, Trondheim, Norway, <sup>11</sup>Centre for Geophysical Forecasting (CGF), NTNU Trondheim, Trondheim, Norway

\* pv@geus.dk

This presentation gives an overview of the ACT3 SHARP Storage project (Stress history and reservoir pressure for improved quantification of CO<sub>2</sub> storage containment risks), introducing its ongoing seismological activities. This includes building a new earthquake catalogue for the North Sea area and designing improved seismic monitoring schemes for CO<sub>2</sub> storage sites using seismic networks, seismic arrays, and distributed acoustic sensing on fibre-optic cables. The SHARP Storage project was launched in late 2021 with the overall aim to increase accuracy of subsurface CO<sub>2</sub> storage containment risk management through the improvement and integration of subsurface stress models, rock mechanical failure and seismicity observations. SHARP is collaboration between 16 research institutions and companies and is supported under the ACT3 call. ACT is an ERA NET Cofund, which is a tool established by the European Commission under the Horizon 2020 programme for research and innovation. More information on the SHARP Storage project is found at <https://sharp-storage-act.eu/>.

The SHARP Team: NGI: E.Skurtveit, L.Grande, J.C.Choi, M.Vanneste, C.F.Forsberg, F.Nadim, L.Griffiths, B.Carlton, Y.Feng, NGI/UiO: N.H.Mondol, NORSAR: V.Oye, B.Goertz-Allmann, D.Kuehn, I.Van Bever, B.Dando, A.M.Dichiarante, C.Huang, J.Schweitzer, NTNU: R.M.Singh, R.Jalali, Equinor: P.Ringrose, Z.Zarifi, N.Thompson, L.Wu, M.Torsæter, U. of Oxford: M.Kendall, T.Kettlety, H.Rane, BGS: B.Baptie, J.Williams, E.Philips, R.Cuss, J.Pearce, A.Riddick, Rockfield: J.Cain, A.Bere, D.Roberts, M.Dutko, BP: T.Espie, R.Johnston, S.Deer, R.Eve, GEUS: M.Keiding, N.Skaarup, T.B.Larsen, J.R.Hopper, T.Dahl-Jensen, P.H.Voss, H.Vosgerau, C.M.Nielsen, M.B.W.Fyhn, Shell: K.K.Hindriks, K.Bisdorn, C.Filomena, TU Delft: A.Barnhoorn, K.Weemstra, H.Hajibeygi, B.P.Salgado, E.Martuganova, D.Chandra, Risktec: S.Pearson, S.Hurst, M.Kupoluyi, B.-J.Haitsma, IIT Bombay: D.N.Singh, K.P.Lijith, R.S.Rao, N.Jayasri, F.Mir, S.Manohar, Y.S.Kumar, INEOS: S.R.Poulsen, M.Larsen, Wintershall Dea: A.Szabados, S.Schatzmann, O.Burachok, T.Roth, F.Schaefer, Alcatel: J.K.Brenne, H.NAKSTAD, S.WIENECKE, Oil India: J.Topno, S.Yomdo, Engineers India Limited: Altaf Usmani, S.C.Gupta, V.Shukla, Equinor India: D.Sundararajan, Shell India: S.Mishra, NGI: K.Hauge, M.K.Johnsen.

