

Publication

- [1] **R. Corseri**, H. Seillé, J. I. Faleide, S. Planke, K. Senger, M. M. Abdelmalak, L. J. Gelius, G. Mohn, and G. Visser. “Deep basin conductor characterization using machine learning-assisted magnetotelluric Bayesian inversion in the SW Barents Sea”. In: *Geophysical Journal International* 238 (2024), pp. 420–432. DOI: [10.1093/gji/ggae166](https://doi.org/10.1093/gji/ggae166).
- [2] **R. Corseri**, S. Planke, L. J. Gelius, J. I. Faleide, K. Senger, and M. M. Abdelmalak. “Magnetotelluric image of a hyper-extended and serpentinized rift system”. In: *Earth and Planetary Science Letters* 602 (2023). DOI: [10.1016/j.epsl.2022.117914](https://doi.org/10.1016/j.epsl.2022.117914).
- [3] **R. Corseri**, S. Planke, J. I. Faleide, K. Senger, L. J. Gelius, and S. E. Johansen. “Opportunistic magnetotelluric transects from CSEM surveys in the Barents Sea”. In: *Geophysical Journal International* (2021). DOI: [10.1093/gji/ggab312](https://doi.org/10.1093/gji/ggab312).
- [4] **R. Corseri**, S. Gac, J. I. Faleide, and S. Planke. “The tectonized central peak of the Mjølnir Impact Crater, Barents Sea”. In: *Journal of Structural Geology* 131 (2020). DOI: [10.1016/j.jsg.2019.103953](https://doi.org/10.1016/j.jsg.2019.103953).
- [5] T. S. Faleide, I. Midtkandal, S. Planke, **R. Corseri**, J. I. Faleide, C. S. Serck, and J. P. Nystuen. “Characterisation and development of Early Cretaceous shelf platform deposition and faulting in the Hoop area, southwestern Barents Sea—constrained by high-resolution seismic data”. In: *Norwegian Journal of Geology* (2019). DOI: [10.17850/njg99-3-7](https://doi.org/10.17850/njg99-3-7).
- [6] I. Midtkandal, J. I. Faleide, T. S. Faleide, C. S. Serck, S. Planke, **R. Corseri**, M. Dimitriou, and J. P. Nystuen. “Lower Cretaceous Barents Sea strata: epicontinental basin configuration, timing, correlation and depositional dynamics”. In: *Geological Magazine* (2019), pp. 1–19. DOI: [10.1017/s00167516819000918](https://doi.org/10.1017/s00167516819000918).
- [7] **R. Corseri**, T. S. Faleide, J. I. Faleide, I. Midtkandal, C. S. Serck, M. Trulsvik, and S. Planke. “A diverted submarine channel of Early Cretaceous age revealed by high-resolution seismic data, SW Barents Sea”. In: *Marine and Petroleum Geology* 98 (2018), pp. 462–476. DOI: [10.1016/j.marpetgeo.2018.08.037](https://doi.org/10.1016/j.marpetgeo.2018.08.037).
- [8] **R. Corseri**, K. Senger, K. Selway, M. M. Abdelmalak, S. Planke, and D. A. Jerram. “Magnetotelluric evidence for massive sulphide mineralization in intruded sediments of the outer Vøring Basin, mid-Norway”. In: *Tectonophysics* 706–707 (2017), pp. 196–205. DOI: [10.1016/j.tecto.2017.04.011](https://doi.org/10.1016/j.tecto.2017.04.011).

PhD Thesis

- [9] **R. Corseri**. “Magnetotelluric Investigations of Rifted Systems - Data Analysis, Inversion and Application to the SW Barents Sea”. Defence: January 26th, 2024. PhD thesis. (2023). DOI: <http://hdl.handle.net/10852/107396>.

Pre-print and Report

- [10] **R. Corseri**. “Denoising diffusion probabilistic model - Application to satellite and handwritten digits image generation”. In: *Github Repository* (2024).
- [11] **R. Corseri**. “1D Magnetotelluric Inversion using Physics-Informed CNN”. In: *Github Repository* (2024).
- [12] **R. Corseri**. “DEM generation at Sedongpu Glacier (SE Tibet) for debris flow volume estimation”. In: *Github Repository* (2023).
- [13] **R. Corseri**. “Monitoring shelling activity in eastern Ukraine using MODIS Thermal Anomalies & Fire data”. In: *Github Repository* (2023).
- [14] O. Huff, **R. Corseri**, and I. Berezin. “Shale Caprock Brittleness Estimation for CO₂ Storage Potential using Neural Networks and Random Forest Regression”. In: *Github Repository* (2022).