

Publications - Peer reviewed International journals, - since 2011.

With UNIS affinity

1. Braathen, A., Abdel Fattah, M.M., Ogata, K., **Olaussen, S.**, and Abdel-Gawad, G. Accepted. Basement-cover reservoir analogue in rift-margin fault blocks; Gulf of Suez Rift, Sinai, Egypt *Petroleum Geoscience*
2. Klausen, T. G., Torland, J. A., Eide, C. H., Alaei, Be., **Olaussen, S.** and Chiarella D. In press. Clinoform development and topset evolution in a mud-rich delta - the Triassic Kobbe Formation, Norwegian Barents Sea. *Sedimentology* DOI: [10.1111/sed.12417](https://doi.org/10.1111/sed.12417)
3. Marín, D., Escalona, A., Grundvåg, S.-A., **Olaussen, S.**, Sandvik, S. and Śliwińska, K. K. In press. Unraveling key controls on the rift-climax to post-rift fill of marine rift basins: insights from 3D seismic analysis of the Lower Cretaceous of the Hammerfest Basin, SW Barents Sea. *Basin Research* . [doi:10.1111/bre.12266](https://doi.org/10.1111/bre.12266)
4. Abay, T. B., Karlsen, D.A., Pedersen; J.H., **Olaussen, S.** & Backer-Owe, K. In press. Thermal maturity, hydrocarbon potential and kerogen type of some Triassic to Lower Cretaceous sediments from the southwestern Barents Sea and Svalbard. *Journal of Petroleum Geoscience*, Published Online First, doi: <https://doi.org/10.1144/petgeo2017-035>
5. Matysik, M., Stemmerik L., **Olaussen S.**, and Brunstad, H. In press. Diagenesis of spiculites and carbonates in a Permian temperate ramp succession, Tempelfjorden Group, Spitsbergen, Arctic Norway, *Sedimentology*
6. Klausen, T.G., Müller, R. Jiří S., **Olaussen, S.**, Rismyhr, B. and Helland-Hansen, W. 2017. Depositional history of a condensed shallow marine succession constrained by U-Pb detrital zircon: the Lower to Middle Jurassic Stø Formation of the Barents Sea. *Geological Society of London*
7. Grundvåg, S.-A. & **Olaussen, S.** 2017 Sedimentology of the Lower Cretaceous at Kikutodden and Keilhaufjellet, southern Spitsbergen: implications for an onshore–offshore link, *Polar Research*, 36:1, <http://dx.doi.org/10.1080/17518369.2017.1302124>
8. Grundvåg, S.-A., Marin, D., Kairanov, B., Śliwińska, K.K., Nøhr-Hansen, H., Escalona, A. & **Olaussen S.** 2017 The Lower Cretaceous succession of the northwestern Barents Shelf: Onshore and offshore correlation. *Marine and Petroleum Geology* 86 834-857 <http://dx.doi.org/10.1016/j.marpetgeo.2017.06.036>
9. Uguna, J.O., Carr, A. D., Marshall, C., Large, D. J., Meredith, W., Malte, J., Snape, C.E., Vane, C. H., Jensen, M.A. & **Olaussen, S.** In press. Improving spatial predictability of petroleum resources within the Central Tertiary Basin, Spitsbergen: A geochemical and petrographic study of coals

from the eastern and western coalfields. *International Journal of Coal Geology*, 179, 278-294
<http://dx.doi.org/10.1016/j.coal.2017.06.007>

10. Abay, T., B., Karlsen, D., A., Lerch, B., **Olaussen, S.**, Pedersen, J., H. and Backer-Owe, K. 2017. Novel proof of Migrated Petroleum in the Mesozoic strata in Svalbard and detailed Organic Geochemical Characterization-Implications for Regional Exploration *Journal of Petroleum Geology*, 40, 5 -3
11. Koevoets M.J., Abay T.B., Hammer Ø. & **Olaussen S.** 2016. High resolution organic carbon-isotope stratigraphy of the Middle Jurassic – Lower Cretaceous Agardhfjellet Formation of Central Spitsbergen, Svalbard. *Palaeogeography, Palaeoclimatology, Palaeoecology* 449 , 266–274 <http://dx.doi.org/10.1016/j.palaeo.2016.02.029>
12. Hurum, J.H., Roberts, A.J., Dyke, G.J., Grundvåg, S.-A., Nakrem, H.A., Midtkandal, I., Śliwińska, K.K. and **Olaussen, S.** 2016. Bird or maniraptoran dinosaur? A femur from the Albian strata of Spitsbergen. *Palaeontologia Polonica* 67, 137–147. http://dx.doi.org/10.4202/pp.2016.67_137
13. Hanken, N.M., Uchman, A., Nielsen J. K., **Olaussen S.**, Eggebø, T. and Steinsland, R.2016. Late Ordovician trace fossils from offshore to shallow water mixed clastic and carbonate facies in the Ringerike area, Oslo Region, Norway. *Ichnos*, 23:3-4, 189-221
<http://dx.doi.org/10.1080/10420940.2016.1199427>
14. Midtkandal, I. Svensen, H., Planke, S., Corfu, F., Polteau, S., Torsvik, T.H., Faleide, J.I., Grundvåg, S-A, Selnes, H. & **Olaussen, S.** 2016. The Aptian oceanic anoxic event (OAE1a) in Svalbard and the age of the Barremian-Aptian boundary. *Palaeogeography, Palaeoclimatology, Palaeoecology* 463,126-135. <http://dx.doi.org/10.1016/j.palaeo.2016.09.023>
15. Hurum, J. H., Druckenmiller, P. S, Hammer, Ø., Nakrem, H. A. & **Olaussen, S.** 2016. The theropod that wasn't – an ornithomimid tracksite from the Helvetiafjellet Formation (Lower Cretaceous) of Boltodden, Svalbard. In Kear, B. P., Lindgren, J., Hurum, J. H., Milàn, J. & Vajda, V. (eds). Mesozoic Biotas of Scandinavia and its Arctic Territories. *Geological Society, London, Special Publications*, 434, 189-206.
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16. Petersen, T.G., Thomsen, T.B., **Olaussen, S** & Stemmerik, L. 2016. Provenance shifts in an evolving Eureka foreland basin; the Tertiary Central Basin, Spitsbergen. *Journal Geological Society London* 173: 634-648. [doi:10.1144/jgs2015-076](https://doi.org/10.1144/jgs2015-076)
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<http://dx.doi.org/10.1016/j.margeo.2015.02.003>

18. Senger, K. Tveranger J., Braathen, A., **Olaussen S.**, Ogata K. & Larsen L. 2015. CO2 storage resource estimates in unconventional reservoirs: insights from a pilot-sized storage site in Svalbard, Arctic Norway. *Environ Earth Science.*, pp. 3987–4009. [DOI 10.1007/s12665-014-3684-9](https://doi.org/10.1007/s12665-014-3684-9)
19. Anell, I., Braathen, A. & **Olaussen, S.** 2014. Regional constraints of the Sørkapp Basin: A Carboniferous relic or a Cretaceous depression? *Marine and Petroleum Geology*. Vol 52, pp. 123-138 <http://dx.doi.org/10.1016/j.marpetgeo.2014.02.023>
20. Kühn, D., Oye, V, Albarica, J., Harrisb, D., Hillersc, G., Braathen, A., and **Olaussen, S.** 2014. Preparing for CO2 storage in the Arctic – Assessing background seismic activity and noise characteristics at the CO2 Lab site, Svalbard. *Energy Procedia*, Vol. 63, pp.4313 – 4322
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23. Van Stappen, J., De Kock, T., Boone, M.A., **Olaussen, S.** & Cnudde, V. 2014. Pore-scale characterisation and modelling of CO2 flow in tight sandstones using X-ray micro-CT; Knorringfjellet Formation of the Longyearbyen CO2 Lab, Svalbard. *Norwegian Journal of Geology*, Vol 94, pp. 201–215. http://www.geologi.no/images/NJG_articles/NJG_2_3_Vol94_VanStappen_Pr.pdf
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