

Curriculum Vitae of Sten-Andreas Grundvåg



«I am losing precious days. I am degenerating into a machine for making money. I am learning nothing in this trivial world of men. I must break away and get out into the mountains to learn the news»

- John Muir

Front cover photos

Upper photo: Students working on an outcrop at Ullaberget, Svalbard.

Middle photo: Myself investigating gravity flow deposits in NE Greenland. Photo: Gijs Henstra.

Lower photo: Tent camp in Wollaston Forland, NE Greenland.

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CV Summary

I am a sedimentologist interested in the study of sedimentary processes and their depositional products. My research focuses particularly on facies analysis and sequence stratigraphy, and the application of these concepts for reconstructing paleo-environments and evolution of basin fill sequences. I have a strong passion for integrating traditional fieldwork with modern mapping and acquisition techniques, and I have worked extensively with sedimentary rock records in remote Arctic regions such as Svalbard and NE Greenland.

I am currently Associate Professor in sedimentology at the Department of Geosciences at UiT The Arctic University of Norway (UiT). Since 2017, I have been the Deputy Director of the '*Research Centre for Arctic Petroleum Exploration*' (ARCEX), which is a triple helix-research collaboration between academia, industry and the public sector. ARCEX is financially supported by the Research Council of Norway, Norwegian authorities, as well as private businesses, and have a duration of 8 years and a budget of c. 231.4 MNOK/c. 22.88 M€ (exchange rate = 9.8 NOK/EUR, as of 26.12.2020). Furthermore, I have acted as the co-leader of the geology work-package of ARCEX since 2015.

I obtained my BSc and MSc degrees in geology at UiT between 2003 and 2008, including a one-year exchange to the University Centre in Svalbard (UNIS). This was followed by a 3-years PhD fellowship at the University of Bergen (UiB), financed by former Statoil, now Equinor. My PhD project focused on the sedimentology of the Eocene succession of the Central Tertiary Basin of Spitsbergen. Shortly after my PhD defense in the late spring of 2012, I commenced a 3-years postdoctoral fellowship at UNIS affiliated to the industry-funded '*Lower Cretaceous basin studies in the Arctic*' (LoCrA) project. In 2014, I was offered an Associate Professor II position at UiT, affiliated to ARCEX, and since autumn 2015 I have been holding a full-time position as Associate Professor at UiT.

During my scientific career, I have co-led and contributed to multiple research proposals that have generated an accumulated funding of c. 33.99 MNOK/c. 3.36 M€. Furthermore, I have initiated and maintained an extensive network with experts from national and international research institutions, industry companies, as well as governmental organizations. This is well reflected in my publication list containing exclusively multi-authored peer-reviewed papers.

My publication list includes 23 peer-reviewed journal papers (plus two manuscripts currently in review and four in prep.), one book chapter, two field guides, multiple popular scientific and online outreach articles, and >80 conference contributions. As of December 26th 2020, the number of citations in GoogleScholar is 370, my H-index is 11, and my i10-index is 13.

My teaching experience includes lectures, seminars and field exercises at all levels from undergraduate to PhD courses. I am currently the course responsible of a MSc-level course in sedimentology at UiT, and I am involved in teaching in additional courses at UiT and UNIS. Furthermore, I have supervision experience of MSc students and PhD candidates, as main- and co-supervisor.



Tromsø, December 26th 2020

Curriculum Vitae of Sten-Andreas Grundvåg

1. Personal information and contact details

Name: Sten-Andreas Grundvåg
Date of birth: 03.11.1983
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Department of Geosciences
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Website: https://en.uit.no/ansatte/person?p_document_id=404873
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Private interests: Randone skiing, alpine climbing, hiking, running, and photography.
Certificates: Driver license (class B).
Professional societies: International Association of Sedimentologists (IAS), Norwegian Geological Society (NGF), Norwegian Petroleum Society (NPF).

"I am an Associate Professor at the Department of Geosciences at the UiT The Arctic University of Norway. My field of research is within sedimentology and sequence stratigraphy, as well as the practical application of these research fields within other branches of geoscience such as petroleum geology. Through my research, I have developed a strong passion for traditional fieldwork and outcrop-based studies, particularly in remote Arctic regions".

Main research topics

- Understanding sedimentary processes and their depositional products.
- Using sedimentary facies analysis to reconstruct landscapes of the past.
- Using the sedimentary rock record of Svalbard as an analogue for stratigraphic studies of subsurface strata on the Barents Shelf.
- Analyzing basin fill successions to elucidate tectonic and climatic signals.

Skills

Geological field work (planning/conducting), sedimentological core analysis, basic petrographic thin-section analysis, seismic interpretation (basic), well log interpretation, basic UAV piloting, vector graphics (Adobe Illustrator/CorelDraw), photo editing (Adobe Photoshop).

2. Education

Higher education and academic degrees

- 2009–2012 *Philosophiae Doctor* (PhD). Graduation date: 22.06.2012. Thesis title: “*Outcrop and subsurface characterization of shelf-margin clinoform systems*”.
Department of Earth Science, University of Bergen (UiB), Norway. Supervisors: Prof. William Helland-Hansen (UiB), Erik P. Johannessen (Statoil) and Frode Hadler-Jacobsen (Statoil).
- 2006–2008 *Master of Science* (MSc) degree in sedimentology. Graduation date: 05.12.2008. Thesis title: “*Facies analysis, sequence stratigraphy and geochemistry of the middle-upper Permian Kapp Starostin Formation, central Spitsbergen*”.
Department of Geology, University of Tromsø (UiT), Norway. Supervisors: Nils-Martin Hanken (UiT) and Jesper Kresten Nielsen (UiT).
- 2003–2006 Bachelor of Science (BSc) degree at the Department of Geology, University of Tromsø, Norway. The degree included one-year exchange to the University Centre in Svalbard.

School education

- 1999–2002 Almenne fag, Tromsdalen videregående skole (high school). Specialization in organization and travels.

Other courses and education

- 2019 ‘Forskningsveiledning/research supervision’, UiT, Norway.
- 2014 ‘University teaching and learning’ (course in higher education pedagogics), UNIS, Norway.
- 2011 ‘Tress & Tress: how to publish in peer-reviewed journals’, UiB, Norway.
- 2011 Alpine climbing course, Nord-Norsk Klatreskole, Henningsvær, Norway.
- 2010 MNF-8000: Research and research communication, UiT, Norway.
- 2008 SVALEX: Statoil-led integrated field course to Svalbard about reservoir geology and exploration activity in oil companies.
- 2006 Safety training at UNIS (general safety, risk scenarios on Svalbard, use of rifle, avalanche rescue, glacier rescue, field leadership, driving snow scooters), Longyearbyen, Norway.

3. Employment

Academic positions

- 2015–Present Associate Professor in sedimentology, Department of Geosciences, UiT The Arctic University of Norway, Norway
- 2014–2015 Associate Professor II (10%), Department of Geosciences, UiT The Arctic University of Norway, Norway
- 2012–2015 Postdoctoral researcher, Department of Arctic Geology, University Center in Svalbard, Norway.
- 2009–2012 PhD candidate, Department of Earth Science, University of Bergen, Norway.

Other positions

- 2014–2015 Assistant guide, Empire Logistics, Longyearbyen, Norway

07.2008–08.2008	Summer internship at Statoil's (now Equinor) exploration office in Harstad, Norway. Seismic interpretation and well correlations.
2002–2008	Supermarket assistant employee, Coop Prix, Tromsdalen, Norway.
01.2006–05.2006	Snowmobile and ice cave guide, Spitsbergen Travel, Longyearbyen, Norway.
2002–2003	Military service (mandatory conscription), Norway.

4. Fellowships, grants and awards

2019	Nominated by students for the Teaching Award at the Faculty of Science and Technology, UiT The Arctic University of Norway.
2012–2015	Postdoctoral Fellowship financed through the LoCrA consortia (3.5 years).
2009–2012	Doctoral Fellowship financed by Statoil (3 years).
2010	Grant from Statoil Akademia programme for conference attendance (IAS conference, Argentina). Funding of c. 25.000 NOK/c. 2472 €.
2009	Grant from Statoil Akademia programme for conference attendance (IAS conference, Sardinia, Italy). Funding of c. 25.000 NOK/c. 2472 €.

5. Professional merits and achievements

- 23 papers published in peer-reviewed journals, two manuscripts currently in review, two field guides (one peer reviewed), one book chapter, and six popular scientific publications. As of 26.12.2020 the number of citations in GoogleScholar is 369 citations (over the last 5 years); H-index: 11; i10-index: 13. Publication details are provided further below.
- Previously the co-supervisor of two PhD (as an active co-supervisor) and 15 MSc students (seven as main supervisor). Currently the supervisor of seven PhD candidates (four as main supervisor) and one MSc student (as co-supervisor).

06.2019	Invited speaker to the Petroleum Conference 2019 in Oslo, arranged by the Research Council of Norway (RCN). Oral presentation and panel debate (in Norwegian).
01.2018	Presented research highlights to the Norwegian Oil and Energy Minister during his visit to UiT The Arctic University of Norway.
06.2017	Invited speaker to the Frontier Exploration workshop in Stavanger, arranged by FORCE (a cooperating forum for energy companies and authorities in Norway).

6. Publications

I am the first-author and co-author of 23 peer-reviewed journal papers, one book chapter, two field guides (one published and one compiled in association with a conference excursion), as well as multiple popular scientific and outreach contributions. I am also the co-author of two journal papers currently in review and four manuscripts ready for submission shortly. My journal papers are published in international journals such as Sedimentology, Basin Research, Tectonics, 3xPaleo, Journal of Structural Geology, Marine and Petroleum Geology, Geological Magazine, as well as Arctos, Polar Research and the Norwegian Journal of Geology. The papers reflect my broad interest in sedimentology-related topics, as well as my particular interest in the Paleogene succession in Spitsbergen, the Lower Cretaceous succession in Svalbard and the Barents Shelf, Upper Jurassic to

*Lower Cretaceous rift basin deposits in NE Greenland, and the Upper Permian mixed carbonate-siliciclastic succession in Spitsbergen. An updated list of my published peer-reviewed journal articles are also found at my [GoogleScholar profile](#). The number of citations mentioned at the end of each publication in the list is based on GoogleScholar statistics generated on the 26.12.2020. I have listed my publications in chronological order and explained my contribution for each paper. The 15 papers that I have attached for the evaluation committee is marked by a * in the list below.*

6.1 Peer-reviewed journal papers (23)

Grundvåg, S.-A., Johannessen, E. P., Helland-Hansen, W. and Plink-Björklund, P. (2014a) Depositional architecture and evolution of progradationally stacked lobe complexes in the Eocene Central Basin of Spitsbergen. *Sedimentology*, 61, 535–569. [Doi: 10.1111/sed.12067](#). 72 citations. *

My contribution: *I collected, described, interpreted and discussed the data of this manuscript and I led the writing process. I was also responsible for planning and organizing the fieldwork.*

Grundvåg, S.-A., Helland-Hansen, W., Johannessen, E.P., Olsen, A. H. and Stene, S. A. K. (2014b) The depositional architecture and facies variability of shelf deltas in the Eocene Battfjellet Formation, Nathorst Land, Spitsbergen. *Sedimentology*, 61, 2172–2204. [Doi: 10.1111/sed.12131](#). 12 citations. *

My contribution: *I collected, described, interpreted and discussed the data of this manuscript and I led the writing process. I was also responsible for planning and organizing the fieldwork.*

Uchman, A., Hanken, N.-M., Nielsen, J. K., **Grundvåg, S.-A.** and Piasecki, S. (2016) Depositional environment, ichnological features and oxygenation of Permian to earliest Triassic marine sediments in central Spitsbergen, Svalbard. *Polar Research*, 35, [Doi: 10.3402/polar.v35.24782](#). 14 citations. *

My contribution: *I contributed to data collection (trace fossils and all the geochemistry data), interpretation and writing of the manuscript.*

Grundvåg, S.-A. and Olaussen, S. (2017) Forced regressive deposits in the Lower Cretaceous at Kikutodden and Keilhaufjellet, southern Spitsbergen. *Polar Research*, 36, [Doi: 10.1080/17518369.2017.1302124](#). 22 citations.

My contribution: *I collected, described, interpreted and discussed the data of this manuscript and I led the writing process. I was also responsible for planning and organizing the fieldwork.*

Hurum, J.H., Dyke, G., Roberts, A.J., **Grundvåg, S.-A.**, Nakrem, H.A., Midtkandal, I., Sliwinska K.K., and Olaussen, S. (2016) An avialan femur from Albian strata on Spitsbergen, Arctic Norway. *Palaeontologia Polonica*, 67, 137–147. [Doi: 10.4202/pp.2016.67_137](#). 11 citations.

My contribution: *I contributed to data collection (sedimentary logs and samples for biostratigraphy), sedimentological descriptions and interpretations, and writing of the manuscript.*

Henstra, G., **Grundvåg, S.-A.**, Johannessen, E.P., Kristensen, T., Midtkandal, I., Nystuen, J.-P., Rotevatn, A., Surlyk, F., Sæther, T. and Windelstad, J. (2016) Depositional processes and stratigraphic architecture within a coarse-grained rift-margin turbidite system: the Wollaston Forland Group, East Greenland. *Marine and Petroleum Geology*, 76, 187–209. [Doi: 10.1016/j.marpetgeo.2016.05.018](#). 47 citations. *

My contribution: *I contributed to data collection (sedimentary logs, outcrop panels, photo mosaics), interpretation and the writing process.*

Kristensen, T.B., Rotevatn, A., Peacock, D.C.P., Henstra, G.A., Midtkandal, I. and **Grundvåg, S.-A.** (2016) Structure and flow properties of syn-rift border faults: the interplay between fault damage and fault-related chemical alteration (Dombjerg Fault, Wollaston Forland, NE Greenland). *Journal of Structural Geology*, 92, 99–115. [Doi: 10.1016/j.jsq.2016.09.012](https://doi.org/10.1016/j.jsq.2016.09.012). 18 citations.

My contribution: *I contributed to data collection (sedimentary logs, outcrop panels, photo mosaics), interpretation and the writing process. I was also the co-supervisor of the first author.*

Midtkandal, I., Svensen, H., Planke, S., Corfu, F., Polteau, S., Torsvik, T., Faleide, J.I., **Grundvåg, S.-A.**, Selnes, H., Kürschner, W. and Olaussen, S. (2016) The Aptian (Early Cretaceous) oceanic anoxic event (OAE1a) in Svalbard, Barents Sea, and the absolute age of the Barremian–Aptian boundary. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 463, 25–135. [Doi: 10.1016/j.palaeo.2016.09.023](https://doi.org/10.1016/j.palaeo.2016.09.023). 31 citations. *

My contribution: *I contributed to data collection (core descriptions), interpretation, figure drafting and the writing process.*

Grundvåg, S.-A., Marin, D., Kairanov, B., Sliwiska, K.K., Nøhr-Hansen, H., Jelby, M.E., Escalona, A., and Olaussen, S. (2017) The Lower Cretaceous succession of the northwestern Barents Shelf: onshore and offshore correlations. *Marine and Petroleum Geology*, 86, 834–857. [Doi: 10.1016/j.marpetgeo.2017.06.036](https://doi.org/10.1016/j.marpetgeo.2017.06.036). 44 citations. *

My contribution: *I collected, described, interpreted and discussed the onshore data of this manuscript and I led the writing process. I was also responsible for integrating the offshore data with the onshore data.*

Marín, D., Escalona, A., **Grundvåg, S.-A.**, Olaussen, S., Sandvik, S. and Śliwińska, K. K. (2017) Unravelling 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*, 30, 587–612. [Doi: 10.1111/bre.12266](https://doi.org/10.1111/bre.12266). 10 citations. *

My contribution: *I contributed to data collection (core descriptions), interpretation and the writing process.*

Marín, D., Escalona, A., **Grundvåg, S.-A.**, Nøhr-Hansen, H. and Kairanov, B. (2018) Effects of adjacent fault systems on drainage patterns and evolution of uplifted rift shoulders: the Lower Cretaceous in the Loppa High, southwestern Barents Sea. *Marine and Petroleum Geology*, 94, 212–229. [Doi: 10.1016/j.marpetgeo.2018.04.009](https://doi.org/10.1016/j.marpetgeo.2018.04.009). 9 citations. *

My contribution: *I contributed to data collection (core descriptions), interpretation and the writing process.*

Rotevatn, A., Kristensen, T.B., Ksienzyk, A., Wemmer, K., Henstra, G.A., Midtkandal, I., **Grundvåg, S.-A.** and Andresen, A. (2018) Structural inheritance and rapid rift-length establishment in a multiphase rift: the East Greenland rift system and its Caledonian orogenic ancestry. *Tectonics*, 37, 1858–1875. [Doi: 10.1029/2018TC005018](https://doi.org/10.1029/2018TC005018). 30 citations. *

My contribution: *I contributed to data collection, interpretation and the writing process. I was also the co-supervisor of the second author.*

Hammer, Ø., Alsen, P., **Grundvåg, S.-A.**, Jelby, M. E., Nøhr-Hansen, H., Olaussen, S., Senger, K., Śliwińska, K., K and Smelror, M. (2018) Comment on ‘Redox conditions, productivity, and volcanic input during deposition of uppermost Jurassic and Lower Cretaceous organic-rich siltstones in Spitsbergen, Norway’ by Rakociński et al. (2018). *Cretaceous Research*. [Doi: 10.1016/j.cretres.2018.09.017](https://doi.org/10.1016/j.cretres.2018.09.017). 4 citations.

My contribution: *I contributed to the writing process.*

Senger, K., **Grundvåg, S.-A.**, Faleide, J.A., Olaussen, S. and Dallmann, W. (2019). Petroleum systems of Svalbard: insights from exploration drilling. *Norwegian Journal of Geology*, 99, [Doi: 10.17850/njg99-3-1](https://doi.org/10.17850/njg99-3-1). 9 citations.

My contribution: *I contributed to data collection and the writing process.*

Grundvåg, S.-A., Engholm Jelby, M., Śliwińska, K.K., Nøhr-Hansen, H., Aadland, T., Elvelund Sandvik, S. E., Tennvassås, I., Engen, T. and Olaussen, S. (2019) Sedimentology and palynology of the Lower Cretaceous succession of central Spitsbergen: integration of subsurface and outcrop data. *Norwegian Journal of Geology*, 99, 253–284. [Doi: 10.17850/njg006](https://doi.org/10.17850/njg006). 10 citations.

My contribution: *I collected, described, interpreted and discussed most of the sedimentological data of this manuscript and I led the writing process.*

Śliwińska, K.K., Jelby, M.E., **Grundvåg, S.-A.**, Nøhr-Hansen, H. and Olaussen, S. (2020) Dinocyst stratigraphy of the Valanginian–Aptian Rurikfjellet and Helvetiafjellet formations on Spitsbergen, Arctic Norway. *Geological Magazine*, 157, 1693–1714. [Doi: 10.1017/S0016756819001249](https://doi.org/10.1017/S0016756819001249). 5 citations. *

My contribution: *I contributed to data collection (most of the outcrop samples) and the writing process.*

Jelby, M.E., **Grundvåg, S.-A.**, Helland-Hansen, W., Olaussen, S. and Stemmerik, L. (2020) Tempestite facies variability and storm-depositional processes across a wide ramp: Towards a polygenetic model for hummocky cross-stratification. *Sedimentology*, 67, 742–781. [Doi: 10.1111/sed.12671](https://doi.org/10.1111/sed.12671). 7 citations. *

My contribution: *I contributed to data collection (sedimentary logs, outcrop panels and photos), interpretation and the writing process. I was also the co-supervisor of the first author.*

Jochmann, M.M., Augland, L.E., Lenz, O., Gerd, B., Haugen, T., **Grundvåg, S.-A.**, Jelby, M.E., Midtkandal, I., Dolezych, M. and Hjálmarssdóttir, H.R. (2019) Sylfjellet – a new outcrop of the Paleogene Van Mijenfjorden Group in Svalbard. *Arctos*. [Doi: 10.1007/s41063-019-00072-w](https://doi.org/10.1007/s41063-019-00072-w). 1 citation.

My contribution: *I contributed to data collection (sedimentary logs and outcrop photos) and the writing process.*

Olaussen, S. Senger, K., Braathen, A., **Grundvåg, S.-A.** and Mørk, A. (2020). You learn as long as you drill research synthesis from the Longyearbyen CO2 Laboratory, Svalbard, Norway. *Norwegian Journal of Geology*, 99, 157–188. [Doi: 10.17850/njg008](https://doi.org/10.17850/njg008). 10 citations.

My contribution: *I contributed to data collection (core descriptions), interpretation, figure drafting and the writing process.*

Grundvåg, S.-A., Jelby, M.E., Olaussen, S. and Śliwińska, K.K. (2020). The role of shelf morphology on storm-bed variability and stratigraphic architecture, Lower Cretaceous, Svalbard. *Sedimentology*. [Doi:10.1111/sed.12791](https://doi.org/10.1111/sed.12791). *

My contribution: *I collected, described, interpreted and discussed the data of this manuscript and I led the writing process. I was also responsible for planning and organizing the fieldwork.*

Helland-Hansen, W. and **Grundvåg, S.-A.** (2020). The Svalbard Eocene-Oligocene (?) Central Basin succession: Sedimentation patterns and controls. *Basin Research*. [Doi: 10.1111/bre.12492](https://doi.org/10.1111/bre.12492).

*

My contribution: *I contributed to data collection (sedimentary logs, paleo-current measurements etc.), interpretation, figure drafting and the writing process.*

Salomon, E., Rotevatn, A., Kristensen, T.B., **Grundvåg, S.-A.**, Henstra, G., Meckler, A.N., Albert, R. and Gerdes, A. (2020) Fault-controlled diagenesis and fluid circulation along syn-rift border fault systems – insights from Dombjerg Fault and the Wollaston Forland Basin, NE Greenland. *Solid Earth*. Doi: 10.5194/se-2020-72. 2 citations. *

My contribution: *I contributed to data collection, interpretation and the writing process.*

Larssen, K. Senger, K. and **Grundvåg, S.-A.** (2020) Fracture characterization in Upper Permian carbonates in Spitsbergen: from virtual outcrop to geo-model. *Marine and Petroleum Geology*. Doi: 10.1016/j.marpetgeo.2020.104703. *

My contribution: *I contributed to the writing process. I was also the co-supervisor of the first author.*

6.2 Papers in review (2) and in prep. (4)

Ärlebrand, A., Augustsson, C., Escalona, A., **Grundvåg, S.-A.** and Marin, D. (In review) Depositional setting and diagenesis as keys to reservoir quality: the Lower Cretaceous in the SW Barents Sea. *Submitted to Marine and Petroleum Geology*.

My contribution: *I contributed to data collection, interpretation and the writing process.*

Olaussen, S., **Grundvåg, S.-A.**, Senger, K., Anell, I., Braathen, A., Dallmann, W., Helland- Hansen, W., Jochmann, M., Johannessen, E.P., Mørk, A. and Stemmerik, L. (In prep.) Svalbard Platform Tectono-Stratigraphic Element. Book chapter soon ready for submission. *Geological Society Special Publication*.

My contribution: *I contributed to data interpretation, figure drafting and the writing process.*

Hjálmarsdóttir, H.R., Hammer, Ø., Nagy, J. and **Grundvåg, S.-A.** (In prep.) Micropalaeontology and depositional environment of the Carolinefjellet Formation at Platåberget, Central Spitsbergen. *Manuscript soon to be submitted to 3xPaleo*.

My contribution: *I contributed to data interpretation and the writing process.*

Paulsen, R., Senger, K. Stueland, E. Birchall, T., Betlem, P. and **Grundvåg, S.-A.** (In prep.) Seal Characterization and Integrity in Uplifted Basins on the Barents Shelf, the Hoop Area. *Manuscript soon to be submitted to Marine and Petroleum Geology*.

My contribution: *I have contributed to data interpretation and the writing process. I am the main supervisor of the first author.*

Spychala, Y.T., Ramaaker, T.A.B., Eggenhuisen, J.T., **Grundvåg, S.-A.**, Pohl, F. and Wroblewska, S. (In prep.) Proximal to distal grain-size distribution of basin-floor lobes: A study from the Battfjellet Formation, Central Tertiary Basin, Svalbard. *Manuscript soon to be submitted to The Depositional Record*.

My contribution: *I contributed to data collection, interpretation and the writing process.*

Wesenlund, F., Thiessen, O., Pedersen, J.H., Skeie, J.E., Sjøholt, V.E. and **Grundvåg, S.-A.** (In review) Linking facies variations, organic carbon richness and bulk bitumen content – a case study from the organic-rich Middle Triassic shales of eastern Svalbard. *Submitted to Marine and Petroleum Geology*.

My contribution: *I contributed to data collection, interpretation and the writing process. I am the main supervisor of the first author.*

6.3 Book chapters (1)

I contributed with one chapter focusing on the Cretaceous strata of Svalbard in the historical geology part of the 'Geoscience Atlas of Svalbard' (edited by Winfried Dallmann) published by the Norwegian Polar Institute.

Grundvåg, S.-A. (2015) Historical geology: Cretaceous. In: Geoscience Atlas of Svalbard (ed W.K. Dallmann). Norwegian Polar Institute, Tromsø. Pages 118–121.

6.4 Field guides (2)

Throughout my years of studying and in my professional career, I have visited the renowned Festningen section in western Spitsbergen numerous times. It is a mandatory location in several of the courses that I teach (or have taught) at UNIS, and I have guided industry companies through the section at many occasions. Thus, it was a great pleasure to contribute with material to a peer-reviewed field guide of the Festningen section together with Prof. Atle Mørk (NTNU). The guide is free to download at: <https://www.geologi.no/organsisasjon/om-ngf/nyheter-ngf/item/1080-geoquide7>. In addition, I compiled a field guide for an excursion related to the combined '2nd Boreal Triassic Conference 2015' / '12th International Workshop on the Permo-Triassic' in Svalbard, September 2015.

Mørk, A. and **Grundvåg, S.-A.** (2020) The Festningen Section – Svalbard: A 300-million-year journey through shoreline exposures of the Carboniferous and Mesozoic in 7 kilometers. *Norwegian geological society (NGF). Geological guides 7*, 36 pp.

Grundvåg, S.-A., Hanken, N.M., Nielsen, J.K. and Uchman, A. (2014) The Gipshuken and Kapp Starostin formations at Vindodden and Marmierfjellet – a field guide. The *2nd Boreal Triassic Conference 2015/12th International Workshop on the Permo-Triassic*. Excursion guide, the University Center in Svalbard. 21 pp.

6.5 Popular scientific publications (6 + 1 booklet, all in Norwegian language)

The two first contributions was published as independent popular scientific texts, but was later included as separate chapters in a popular scientific booklet compiled and edited by Braathen and Carstens (2016). The booklet (written in Norwegian), aimed to intrigue students to study the sedimentary rock record of Svalbard and thus inspire future generations of Polar researchers.

Grundvåg, S.-A., Hurum, J., Midtkandal, I., and Olaussen, S., (2012) Tykke sandsteinslag utgjør en megasekvens. *GEO*, no. 6, 2012.

Grundvåg, S.-A., and Stemmerik, L. (2013) Uløste klimagåter og massedød. *GEO*, no. 1, 2013.

Braathen, A. and Carstens, H. (Eds.) (2016) Svalbard – geologisk inspirasjon. UNIS, Svalbard. 47 pp.

Note that the two GEO articles above were my contributions to this popular scientific booklet made to inspire future Arctic geoscientists.

Grundvåg, S.-A. (2016) Uendelig langt vekk fra kontoret. *GEO*, no. 4, 2016.

Henstra, G., **Grundvåg, S.-A.**, Kristensen, T., Midtkandal, I. and Rotevatn, A. (2017) Tilførsel av sand og grus til dyphavet: prosesser, avsetninger og anvendelser. *Naturen*, 5, 219–227. *Doi: 10.18261/issn.1504-3118-2017-05-05*.

Senger, K., Brugmans, P., **Grundvåg, S.-A.**, Jochmann, M., Nøttvedt, A., Olaussen, S., Skotte, A. and Smyrak-Sikora, A. (2019) Oljejakten startet i nord. *GEO*, no. 8, 2019. 82–84.

Olaussen, S., **Grundvåg, S.-A.**, Hurum, J. and Senger, K. (2020) Den gangen dinosaurene var askefaste. Published 24.11.2020 in *Svalbardposten*,

<https://svalbardposten.no/kronikker/den-gangen-dinosaurene-var-askefaste/19.13238>

6.6 Online outreach (5)

Following major fieldwork campaigns, I often write short online communications so that sponsors and collaborators may follow our progress. These contributions are not peer-reviewed and are foremost my personal memoirs and reflections. This is also the reason to why I have separated these contributions from the above (peer-reviewed) popular scientific publications.

- Grundvåg, S.-A.** (2015, August 24th). Spiculites, brachiopods and barking huskies in Dicksonfjorden, Svalbard: a closer look at the Late Permian Kapp Starostin Formation. Published at www.ARCEx.no. <https://arcex.no/spiculites-brachiopods-and-barking-huskies-in-dicksonfjorden-svalbard-a-closer-look-at-the-late-permian-kapp-starostin-formation/>
- Grundvåg, S.-A.** (2015, September 16th). Sheared basin margins, gravity flow deposits and an unexpected evacuation. Published at www.ARCEx.no. <https://arcex.no/sheared-basin-margins-gravity-flow-deposits-and-an-unexpected-evacuation/>
- Grundvåg, S.-A.** (2018, August 28th). In the heat of the Arctic summer – geological travel blog from East Greenland. Published at www.ARCEx.no. <https://arcex.no/in-the-heat-of-the-arctic-summer-geological-travel-blog-from-east-greenland/>
- Grundvåg, S.-A.** (2020, June 9th) 2000 leagues across the seas – some reflections from a land-based geologist at high sea. Published at www.ARCEx.no. <https://arcex.no/2000-leagues-across-the-seas-some-reflections-from-a-land-based-geologist-at-high-sea/>
- Grundvåg, S.-A.** (2020, September 23rd) Pilgrimage – the act of journeying to a sacred place. Published at www.ARCEx.no. <https://arcex.no/pilgrimage-the-act-of-journeying-to-a-sacred-place/>

6.7 Public reports (5)

I have contributed with multiple text sections and photos in the following ARCEX annual reports, which is publically available and free of download.

- ARCEX Annual Report 2015. Contributions: cover photo, pictures on pages 6–7, 14–15, 17, 24, 29, and text on pages 17–18. Download link: https://arcex.no/wp-content/uploads/2015/12/ARCEX_AR_2015.pdf
- ARCEX Annual Report 2016. Contributions: pictures on pages 10–11, 14–15, 20–21, 22–23, 26–27, 28–29 and text on pages 11, 15, 29. Download link: https://arcex.no/wp-content/uploads/2015/03/ARCEX_AR_2016_web.pdf
- ARCEX Annual Report 2017. Contributions: cover photo, pictures on pages 14–15, 18–19, 32, 40–41, and text on pages 13, 15–17 and 33. Download link: https://arcex.no/wp-content/uploads/2018/04/ARCEX_AR_2017_net.pdf
- ARCEX Annual Report 2018. Contributions: cover photo, pictures on pages 6–9, 10–11, 12, 13, 30–31, and text on pages 7, 11–13, and 31. Download link: https://arcex.no/wp-content/uploads/2019/11/2019-05-20-ARCEX_AR_2018.pdf
- ARCEX Annual Report 2019. Contributions: cover photo, pictures on pages 9, 12, 15, 16, and text on pages: 11, 13–14, 33, and 34–35 (all photos). Download link: https://arcex.no/wp-content/uploads/2020/11/ARCEX_AR_2019-3_korr.pdf

6.8 Published photographs (6)

I commonly combine my passion for Arctic geology and alpine landscapes with my interest in photography. This have led to publication of several photos in various media. In addition to the listed photographs, I have contributed with numerous photographs of geological features in Svalbard to all the ARCEX annual reports (listed in section 6.7).

Grundvåg, S.-A., (2010) Sponge spicules. In: Petroleum Geoscience: From Sedimentary Environments to Rock Physics (ed Knut Bjørlykke), Springer (SpringerImages). Page 155.

Grundvåg, S.-A. (2012) Tidal channel in the Helvetiafjellet Formation at Ullaberget. Front page photo in GEO, nr. 6, 2012.

Grundvåg, S.-A. (2014) Fluvial channels in the Aspelintoppen Formation. Cover photo in Sedimentology Vol. 61, issue 7.

Grundvåg, S.-A. (2016) Dolerite sill at Diabasodden, Spitsbergen, in GEO, nr. 3 (May) 2016.

Grundvåg, S.-A. (2018) Bjørnøya p. 76-77, Templet p. 78. In: At the Edge (ed Paul Wassmann), Orkana Forlag. ISBN/EAN: 9788281042995.

6.9 Theses (2)

The main outcome of my MSc thesis was published in Uchman et al. (2016), which I co-authored (full reference given in my publication list). The thesis itself, which is publically available, have been cited by several other publications focusing on the Upper Permian of Svalbard. Two of the manuscripts included in my PhD dissertation have been published in Sedimentology and both are attached as part of the selected papers accompanying the application.

Grundvåg, S.-A., (2008) Facies analysis, sequence stratigraphy and geochemistry of the middle-upper Permian Kapp Starostin Formation, central Spitsbergen. MSc thesis, Department of Geology, University of Tromsø. 220 pages.

Grundvåg, S.-A., (2012) Outcrop and subsurface characterization of shelf-margin clinoform systems: An integrated approach for understanding processes and controls of facies distribution and depositional architectures. PhD dissertation, Department of Earth Science, University of Bergen. 252 pages.

6.10 Cruise reports (2)

During the last few years, I have been involved in two marine geology projects aiming at collecting bedrock samples from subcrops at the seafloor by using a ROV. The projects are collaborations between the Centre for Arctic Gas Hydrate, Environment and Climate (CAGE) at UiT, the Geological survey of Norway (NGU) and the Norwegian Petroleum Directorate (NPD). I am currently preparing a journal publication based on the samples collected during the Barents Shelf campaign.

Grundvåg, S.-A. (2019) Preliminary description of CAGE ROV samples from marine-geological cruise to the Barents Sea with RV Kronprins Haakon in 2018. (Cruise #CAGE18-5). Unpublished report, 8 pp.

Knies, J., Vadakkepuliyaambatta, S., Himmler, T., Lindgren, M., Sen, A., Velle, J.H., **Grundvåg, S.-A.** and Johansen, S.K. (2020) Preliminary report from marine-geological cruise to the Lofoten-Vesterålen and Møre-Vøring margins with G.O. Sars (Cruise #2020108), June 6–13th, 2020.

7. Conference contributions

I have contributed to more than 80 conference contributions, both oral talks and posters, either as first author or co-author. My very first conference contributions was already during my MSc studies together with my supervisors. During the last few years of my career, my role has shifted substantially from being the principle investigator doing most of the research and dissemination myself to being a project manager, supervisor and collaborator. This is reflected by the high number of co-authored conference contributions in the later years. The list also demonstrate the wide range of research topics that I focus on and the many national and international research groups that I cooperate with. Note that most of the conference abstracts is closely associated to the topics of my published papers.

2008 (3)

- Nielsen, J. K., **Grundvåg, S.-A.**, Hanken, N.-M. and Uchman, A. (2009) Anoxia indicators and their utilisation to describe depositional conditions of marine deposits of Permian age, Norwegian Barents Sea and central Spitsbergen: NGF Winter Conference, 13–15th January 2009, Bergen, Norway. Abstracts and Proceedings of the Geological Society of Norway, No. 1, Page 76.
- Nielsen, Jesper K., Nielsen, Jan K., Hanken, N.-M., Shen, Y., Daszinnies, M. C. and **Grundvåg, S.-A.**, (2008a) A multidisciplinary approach to improve petroleum exploration in the Barents Sea region: Arctic Marine Geology and Geophysics Workshop: "Approaching Arctic Frontier Areas for Petroleum Exploration", 12–13th November 2008, Tromsø, Norway. Page 14.
- Nielsen, Jesper K., Shen, Y., Nielsen, Jan K., Hanken, N.-M. and **Grundvåg, S.-A.** (2008b) Late Permian oxygen-deficiency in the East Greenland Basin: Implications for the potential source rock formation in Northern Europe and Arctic regions. The 33rd International Geological Congress , August 6–14th 2008, Oslo, Norway. Abstract No. 1345499, One page.

2009 (1)

- Grundvåg, S.-A.** and Helland-Hansen, W. (2009) An integrated approach for improving reservoir prediction within shallow shelf to deep-water systems. In: (Eds. Pascucci, V. & Andreucci, S.) Abstract book, 27th IAS Meeting of sedimentology, September 20th–23rd 2009, Alghero, Italy. p. 537. Poster presentation.

2010 (3)

- Carmohn, A., Uchman, A., Hanken, N.-M., Nielsen, J. K., Nielsen and **Grundvåg, S.-A.** (2010) Depositional conditions of Late Permian-earliest Triassic, central Spitsbergen: evidence for oxygen deficiency from inorganic geochemistry and trace fossils. 29th Nordic Geological Winter Meeting, January 11–13th 2010, Oslo, Norway. Abstracts and Proceedings of the Geological Society of Norway (NGF), 1: page 31
- Grundvåg, S.-A.** (2010) The development of stacked basin-floor fans in the Eocene of Spitsbergen. NPF Conference: From Depositional Systems to Sedimentary Successions on the Norwegian Continental Shelf, May 4–6th 2010, Stavanger, Norway. Poster presentation.
- Grundvåg, S.-A.** and Helland-Hansen, W. (2010) Stratigraphic architecture of combined fluvial-wave dominated deltas in the Eocene Central Basin, Nathorst Land, Spitsbergen. IAS 18th International Sedimentological Congress, September 26th–October 1st 2010, Mendoza, Argentina. Oral presentation.

2012 (1)

- Grundvåg, S.-A.** and Helland-Hansen, W. (2012) Outcrop and subsurface characterization of shelf-margin clinoform systems. 29th IAS Meeting of Sedimentology, September 10–13th 2012, Schlading, Austria. Oral presentation.

2013 (3)

- Grundvåg, S.-A.**, Midtkandal, I., Olaussen, S., Hurum, J., and Nakrem, H. A. (2013a) A review of Lower Cretaceous clastic wedges in Svalbard: a key to the prognosis of prolific sandstone units in the Barents Sea. 31st Nordic Geological Winter Meeting, January 8–10th 2013, Oslo, Norway. Poster presentation.

Grundvåg, S.-A., Gjelberg, H. K., Helland-Hansen, W. and Johannessen, E.P. (2013b) The outcrop and subsurface expression of shelf-margin clinoforms: the Eocene Battfjellet Formation, Spitsbergen. 31st Nordic Geological Winter Meeting, January 8–10th 2013, Oslo, Norway. Poster presentation.

Grundvåg, S.-A., Hanken, N.-M., Nielsen, J. K. and Uchman, A. (2013) Depositional evolution of a mixed carbonate-spiculite-siliciclastic platform: facies analysis and sequence stratigraphy of the Permian-Triassic succession, central Spitsbergen. The Permian Strata of Svalbard: An international workshop on the timing of events, geochemical signature and environmental variability of the Permian-to-Early Triassic strata of Svalbard. Norwegian Polar Institute, April 10–12th 2013, Tromsø, Norway. Oral presentation.

2014 (2)

Jelby, M.E., Olaussen, S., Stemmerik, L. and **Grundvåg, S.-A.** (2014) Sedimentology and sequence stratigraphy of the Lower Cretaceous Rurikfjellet Formation, Svalbard: preliminary results. Geological society of Denmark annual meeting, March 29th 2014, Copenhagen, Denmark. Poster Presentation.

Grundvåg, S.-A., Olaussen, S., Jelby, M.E., Sandvik, S.E. and Aadland, T. (2014) An integrated approach for improving the understanding of Lower Cretaceous clastic wedges in the Barents Sea: new observations from outcrop and subsurface studies in Svalbard. Arctic Days - Arctic Energy, June 4–5th 2014, Tromsø, Norway. Oral presentation.

2015 (6)

Grundvåg, S.-A., Olaussen, S., Midtkandal, I., and Sliwiska, K. (2015) The architecture of a regressive wedge in an overall transgressive shelf sequence: the Schönrockfjellet member of the Carolinefjellet Formation, southeastern Spitsbergen. 31st NGF Geological Winter Meeting, January 12–14th 2015, Stavanger, Norway. Oral presentation.

Grundvåg, S.A., Aadland, T., Hammer, Ø., Koevoets, M.J., Midtkandal, I. and Olaussen, S. (2015) Review of the Upper Jurassic and the Lower Cretaceous in Svalbard and the northern Barents Sea. ARCEX Annual Conference 2015, April 20th–21st 2015, Tromsø, Norway. Oral presentation.

Henstra, G.A., **Grundvåg, S.-A.**, , Johannessen, E.P., Korstgård, J., Kristensen, T.B., Midtkandal, I., Nystuen, J.-H., Ravnås, R., Rotevatn, A., Surlyk, F., Sæther, T. and Windelstad, J. (2015) Reservoir architecture of deep marine rift climax deposits: an outcrop study from East Greenland. AAPG Annual Convention & Exhibition, May 31st–June 3rd 2015, Denver, Colorado, USA. Poster presentation.

Grundvåg, S.-A., Olaussen, S., Jelby, M.E., Marin, D., Escalona, A., Sliwiska, K.K. and Nøhr-Hansen. (2015) The architecture of Lower Cretaceous clastic wedges in Svalbard and the northern Barents Sea: the influence of sea-level change in a low-angle ramp setting. IAS 31st Meeting of sedimentology, June 22–25th 2015, Krakow, Poland. Oral presentation.

Grundvåg, S.-A., Marin, D., Olaussen, S., Jelby, M.E., Escalona, A. and Sliwiska, K. (2015) Towards a refined depositional model for the Lower Cretaceous in Svalbard and the northern Barents Shelf: implications for onshore-offshore correlations. 3P Arctic Conference & Exhibition: The Polar Petroleum Potential, September 29th–October 2nd 2015, Stavanger, Norway. Oral presentation.

Jelby, M.E., **Grundvåg, S.-A.**, Olaussen, S. and Stemmerik, L. (2015) Storm deposits in the High Arctic (Lower Cretaceous Rurikfjellet Formation, central Spitsbergen): sequence stratigraphic and hydrodynamic significance. 3P Arctic Conference & Exhibition: The Polar Petroleum Potential, September 29th–October 2nd 2015, Stavanger, Norway. Poster presentation.

2016 (9)

Sliwiska, K., Nøhr-Hansen, H. Jelby, M.E., **Grundvåg, S.-A.** and Olaussen, S. (2016) Dinocyst biostratigraphy of the Lower Cretaceous succession of central and southeastern

- Spitsbergen. European Geosciences Union General Assembly, April 17th–22nd 2016, Vienna, Austria. Poster presentation.
- Midtkandal, I., Svensen, H., Planke, S., Corfu, F., Polteau, S., Torsvik, T., Faleide, J.I., **Grundvåg, S.-A.**, Selnes, H. and Olaussen, S. (2016) The Aptian oceanic anoxic event (OAE1a) in Svalbard and the age of the Barremian-Aptian boundary. European Geosciences Union General Assembly, April 17th–22nd 2016, Vienna, Austria. Poster presentation.
- Grundvåg, S.-A.**, Marin, D., Escalona, A., Kairanov, B., Nøhr-Hansen, H., Sliwinska, K., Jelby, M.E. and Olaussen, S. (2016) Towards a refined depositional model for the Lower Cretaceous in Svalbard and the northwestern Barents Shelf: implications for palaeo-geographic reconstructions and onshore-offshore correlations. FORCE thematic workshop - Advances in siliciclastic and carbonate sedimentology, 19–20th April 2016, Stavanger, Norway. Oral presentation.
- Grundvåg, S.-A.**, Escalona, A., Jelby, M.E., Kairanov, B., Marin, Nøhr-Hansen, H., Olaussen, S., Sandvik, S.E., Sliwinska, K.K. and Aadland, T. (2016) Palaeogeography and stratigraphic development of the Lower Cretaceous of Svalbard and the northern Barents Shelf: some source-to-sink considerations. Norwegian Petroleum Society Arctic Exploration. Understanding the Barents Sea potential, May 31st–June 2nd 2016, Tromsø, Norway. Oral presentation.
- Helland-Hansen, W. **Grundvåg, S.-A.**, Jensen, M. and Jochmann, M. (2016) The Spitsbergen Paleogene Central Basin succession: New insights and implications for subsurface Barents Sea. Norwegian Petroleum Society Arctic Exploration. Understanding the Barents Sea potential, May 31st–June 2nd 2016, Tromsø, Norway. Oral presentation.
- Sliwinska, K.K., Marin, D., Jelby, M.E., **Grundvåg, S.-A.**, Nøhr-Hansen, H., Escalona, A. and Olaussen, S. (2016) Refining the age control of the Lower Cretaceous strata of Spitsbergen and the Barents Sea. Norwegian Petroleum Society Arctic Exploration. Understanding the Barents Sea potential, May 31st–June 2nd 2016, Tromsø, Norway. Poster presentation.
- Marin, D., Escalona, A., **Grundvåg, S.-A.**, Olaussen, S. and Sliwinska, K. (2016) Depositional history of the Lower Cretaceous sequences in the southwestern Barents Sea. Norwegian Petroleum Society Arctic Exploration. Understanding the Barents Sea potential, May 31st–June 2nd 2016, Tromsø, Norway. Oral presentation.
- Kristensen, T.B., Rotevatn, A., Peacock, D.C.P., Ksienzyk, A.K., Henstra, G.A., Midtkandal, I., **Grundvåg, S.-A.** and Wemmer, K. (2016) Breaking it down: mechanical and chemical damage zones. A case study from the Dombjerg Fault Zone, Wollaston Forland, NE Greenland. Tectonic Studies Group (TSG) Annual Meeting, January 6–8th 2016, London, England, Oral presentation.
- Sliwinska, K.K., Nøhr-Hansen, H., **Grundvåg, S.-A. (presenter)**, Jelby, M.E., Marin, D., Escalona, A. and Olaussen, S. (2016) Dinocyst biostratigraphy of the Lower Cretaceous succession of Spitsbergen and the SW Barents Shelf. Norwegian Geological Society 3rd Onshore-Offshore relationships on the North Atlantic Margins conference, October 18–19th 2016, Trondheim, Norway. Poster presentation.

2017 (12)

- Helland-Hansen, W., **Grundvåg, S.-A.** and Aadland, T. (2017) Estimating basin filling times without chronostratigraphic data: an example from the paleogene foreland basin fill of Spitsbergen. NGF Geological Winter Meeting, January 9–11th 2017, Oslo, Norway. Oral presentation.
- Grundvåg, S.-A.**, Helland-Hansen, W., Knaust, D. and Naurstad, O. (2017) A forgotten treasure: fluvial sediments of the Aspelintoppen Formation (Eocene, Svalbard). NGF Geological Winter Meeting, January 9–11th 2017, Oslo, Norway. Oral presentation.
- Jelby, M.E., **Grundvåg, S.-A.** and Olaussen, S. (2017) Tempests beyond the teacup: new insights to the storm-dominated Rurikfjellet Formation (Lower Cretaceous, Svalbard). NGF Geological Winter Meeting, January 9–11th 2017, Oslo, Norway. Oral presentation.

- Brønner, M., Gellein, J., Henningsen, T., Forthun, T., **Grundvåg, S.-A.**, Johannessen, E.P., Knag, G.Ø., Koehl, J.B. and Thiessen, O. (2017) Insights in the basement characteristic and structural settings of Bjørnøya, derived from the first geophysical campaign on the island. NGF Geological Winter Meeting, January 9-11th 2017, Oslo, Norway. Oral presentation.
- Jelby, M.E., **Grundvåg, S.-A.**, Helland-Hansen, W., Olaussen, S. and Stemmerik, L. (2017). Basin-scale facies model of spectacular storm deposits in the High Arctic. Geological Society of Denmark Annual meeting 2017, Copenhagen, Denmark. Program, pp. 15. Poster presentation (AWARDED PRIZE OF BEST SCIENTIFIC POSTER).
- Grundvåg, S.-A.**, Jelby, M.E., Midtkandal, I., Śliwińska, K.K., Nøhr-Hansen, H., Marin, D., Kairanov, B., Escalona A., Olaussen, S. (2017) The Lower Cretaceous of Svalbard and its relevance for exploration in the northern Barents Sea. FORCE thematic Workshop - Frontier Exploration, June 7th, Stavanger, Norway. Oral presentation (INVITED TALK).
- Grundvåg, S.-A.**, Helland-Hansen, W. and Safronova, P. (2017) Turbidites in the Eocene of Spitsbergen: can they tell us something about the Sørvestsnaget Basin? NGF Arctic Days Conference, May 29-30th 2017, Svolvær, Norway. Oral presentation.
- Helland-Hansen, W., **Grundvåg, S.-A.** and Aadland, T. (2017) The coupled West Spitsbergen fold-and-thrust-belt – Central Tertiary Basin source-to-sink system. NGF Arctic Days Conference, May 29-30th 2017, Svolvær, Norway. Oral presentation (KEY NOTE).
- Rotevatn, A., Henstra, G.A., Kristensen, T.B., Gawthorpe, R.L., Ravnås, R., Helland-Hansen, W., **Grundvåg, S.-A.**, Midtkandal, I. (2017) Tectono-sedimentary basin studies in the northern North Atlantic: Lofoten-Vesterålen, Western Barents Sea and the East Greenland Rift. ARCEX Annual Conference 2017, May 10-11th, Malangen, Norway.
- Helland-Hansen, W., **Grundvåg, S.-A.** and Aadland, T. (2017) Assessment of duration of basin filling without chronostratigraphic data: a case study from the Cenozoic foreland basin of Spitsbergen. International Meeting of Sedimentology 2017, 33rd IAS & 16th ASF Joint Meeting, October 10-12th 2017, Toulouse, France. Oral Presentation.
- Jelby, M.E., **Grundvåg, S.-A.**, Helland-Hansen, W., Stemmerik, L. and Olaussen, S. (2017) Reconsidering the formation of hummocky cross-stratification. International Meeting of Sedimentology 2017, 33rd IAS & 16th ASF Joint Meeting, October 10-12th, Toulouse, France. Oral Presentation.
- Wróblewska, S.M., Sychala, Y.T., Eggenhuisen, J.T., Pohl, F. and **Grundvåg, S.-A.** (2017) Where to start? Grain-size analysis in thin sections. 56th The British Sedimentological Research Group (BSRG) Annual General Meeting, December 16–19th 2017, Newcastle University, UK. Poster presentation.

2018 (10)

- Grundvåg, S.-A.** and Helland-Hansen, W. (2018) Evidence of hyperpycnally fed turbidites in a basin floor setting, Eocene of Spitsbergen, Arctic Norway. 33rd Nordic Geological Winter Meeting, January 10–12th 2018, Copenhagen, Denmark. Oral presentation.
- Jelby, M.E., **Grundvåg, S.-A.**, Alsen, P., Śliwińska, K.K., Stemmerik, L., Helland-Hansen, W. & Olaussen, S. (2018) Stratigraphic treasures of an "ugly duckling": towards an integrated basin model of the Lower Cretaceous Rurikjellet Formation, Arctic Svalbard. 33rd Nordic Geological Winter Meeting, January 10–12th 2018, Copenhagen, Denmark. Oral presentation.
- Festøy, M.H., Senger, K. and **Grundvåg, S.-A.** (2018) Fracture networks in and around igneous intrusions on Svalbard: implications for fluid flow. 33rd Nordic Geological Winter Meeting, January 10–12th 2018, Copenhagen, Denmark. Poster presentation.
- Hagset, A.H., Grundvåg, S.-A., Rotevatn, A., Davies, R. and Badics, B. (2018) Basin development and mapping of potential Lower Cretaceous source rocks in the Møre and Vøring basins and the Western Barents Sea. ARCEX Annual Conference 2018, October 9–11th, Longyearbyen, Norway. Poster presentation.

- Hegstad, S.M.K, Ahokas, J., Forwick, M. and Grundvåg, S.-A. (2018) Geochemical correlation of Triassic successions in the Barents Sea – selected preliminary results. ARCEX Annual Conference 2018, October 9–11th, Longyearbyen, Norway. Oral presentation.
- Hegstad, S.M.K, Ahokas, J., Forwick, M. and Grundvåg, S.-A. (2018) Geochemical correlation of Triassic successions in the Barents Sea – testing of a non-destructive method. ARCEX Annual Conference 2018, October 9–11th, Longyearbyen, Norway. Poster presentation.
- Salomon, E., Rotevatn, A., **Grundvåg, S.-A.**, Kristensen, T.B. and Henstra, G. (2018) Structural and diagenetic evolution of a syn-rift border fault zone: the Dombjerg Fault, East Greenland rift system. ARCEX Annual Conference 2018, October 9–11th, Longyearbyen, Norway. Oral presentation.
- Wesenlund, F., Grundvåg, S.-A., Pedersen, J.H., Skeie, J.E. and Thiessen, O. (2018) Organic geochemical trends and correlations in Triassic source rocks in Svalbard – preliminary results. ARCEX Annual Conference 2018, October 9–11th, Longyearbyen, Norway. Oral presentation.
- Olaussen, S., **Grundvåg, S.-A.**, Senger, K., Birchall, T. & Smyrak-Sikora, A. (2018) Understanding Barents Sea Play Concepts Based on 18 wildcats, and some R&D wells, in Svalbard. Geonova NCS Exploration Strategy, November 14–15th 2018, Stavanger, Norway. Oral presentation.
- Olaussen, S., Senger, K., Birchall, T., Braathen, A., **Grundvåg, S.-A.**, Hammer, Ø., Koevoets, M., Larsen, L., Mulrooney, M., Mørk, M.B.E., Ogata, K., Ohm, S. and Rismyr, B. (2018) The Longyearbyen CO₂ lab project: lessons learned from a decade of characterizing an unconventional reservoir-caprock system. EAGE Fifth CO₂ Geological Storage Workshop, November 21st–23rd 2018, Utrecht, Netherlands. Oral presentation.

2019 (21)

- Grundvåg, S.-A.**, Olaussen, S., Midtkandal, I. and Sliwinska, K.K. (2019) On the trace of a lower Aptian source rock in Svalbard. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Oral presentation.
- Hegstad, S.K., Ahokas, J., Forwick, M. and **Grundvåg, S.-A.** (2019) Geochemical correlation of Triassic strata in the Barents Sea – testing of a non-destructive method. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Oral presentation.
- Jochmann, M.M., Augland, L.E., Lenz, O., Bieg, G., Haugen, T., **Grundvåg, S.-A.**, Jelby, M.E., Midtkandal, I., Dolezych, M. and Hjalmsdóttir, H.R. (2019) Revised stratigraphy of Sylfjellet, Svalbard: a new contribution to the Paleogene Van Mijenfjorden Group. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Oral presentation.
- Salomon, E., Rotevatn, A., Kristensen, T.B., **Grundvåg, S.-A.**, Henstra, G. and Meckler, A.N. (2019) Fluid circulation and fault-controlled diagenesis along a major syn-rift border fault system – the Dombjerg Fault and the Wollaston Forland Basin, NE Greenland. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Oral presentation.
- Wesenlund, F., **Grundvåg, S.-A.**, Thiessen, O., Pedersen, J.H. and Skeie, J.E. (2019) Organic geochemical trends and correlations of Middle Triassic shales in Svalbard – preliminary results. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Oral presentation.
- Wesenlund, F., **Grundvåg, S.-A.**, Thiessen, O., Pedersen, J.H. and Skeie, J.E. (2019). Organic geochemical trends and correlations of Middle Triassic shales in Svalbard – preliminary results. NGF Geological Winter Meeting, January 7–9th 2019, Bergen, Norway. Poster Presentation.
- Salomon, E., Rotevatn, A., Kristensen, T.B., Grundvåg, S.-A., Henstra, G.A. and Meckler, A.N. (2019) Fluid circulation and fault-controlled diagenesis along a major syn-rift border fault system – the Dombjerg Fault and the Wollaston Forland Basin, NE Greenland. Tectonics Studies Group Annual Meeting, January 14–16th 2019. Bergen, Norway. Oral presentation.

- Rotevatn, A., Jackson, C.A.-L., Tvedt, A.B.M., Bell, R.E., Blækkan, I., Kristensen, T.B., Ksienzyk, A.K., Wemmer, K., Henstra, G.A., Midtkandal, I., **Grundvåg, S.-A.** and Andresen, A. (2019) How do normal faults grow over a range of spatial (experiment to full-rift) and temporal (seconds to 100s Myr) scales? EGU General Assembly, April 7–12th 2019, Vienna, Austria. Poster presentation.
- Sliwinska, K.K. Nøhr-Hansen, H., Jelby, M.E., Alsen, P., **Grundvåg, S.-A.** and Olaussen, S. (2019) The driving force of changes in sea surface waters in the High Arctic during the Early Cretaceous. EGU General Assembly, April 7–12th 2019, Vienna, Austria. Poster presentation.
- Senger, K., Brugmans, P., **Grundvåg, S.-A.**, Jochmann, M.M., Nøttvedt, A., Olaussen, S., Skotte, A. and Smyrak-Sikora, A. (2019) Petroleum Exploration Onshore Svalbard: A Historical Perspective on the Start of the Norwegian Oil Adventure. AAPG Annual Conference & Exhibition, May 19th–22nd, Denver, USA. Oral presentation.
- Grundvåg, S.-A.** (2019) Svalbards geologi - nøkkelen til bedre ressursutnyttelse i Barentshavet? (translation: “the geology of Svalbard – the key for improved resource exploitation in the Barents Sea”) The Research Council of Norway Petroleum Conference 2019, June 5th, Oslo, Norway. Oral presentation (INVITED TALK).
- Paulsen, R.S. **Grundvåg, S.-A.**, Senger, K. and Stueland, E. (2019) Seal integrity in the uplifted basins in the greater Hoop area on the Northern Barents Shelf. 5th International Conference on Fault and Top Seals, September 8–12th 2019, Palermo, Italy. Poster presentation.
- Grundvåg, S.-A.**, Senger, K., Larssen, G.B., Riis, F. and Olaussen, S. (2019) Late Jurassic to Early Cretaceous sedimentary response to opening of the Amerasian Basin and HALIP activity in Svalbard. AGU Chapman Conference on Large-scale Volcanism in the Arctic: The Role of the Mantle and Tectonics, October 13–18th 2019, Selfoss, Iceland. Oral presentation.
- Olaussen, S., Escalona, A., **Grundvåg, S.-A.**, Marin, D., Ohm, S. and Senger, K. (2019) Middle Jurassic to Lower Cretaceous Clastic Wedges in the north Atlantic, Barents Sea and High Arctic. FORCE thematic workshop - Cretaceous Park: understanding Cretaceous stratigraphic architecture and reservoir quality, October 16–17th 2019, Stavanger, Norway. Oral presentation.
- Hagset, A. **Grundvåg, S.-A.**, Rotevatn, A., Davies, R. and Balazs, B. (2019) Lower Cretaceous source rocks in the SW Barents Sea. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Poster presentation.
- Hegstad, S.K., Ahokas, J., Forwick, M. and **Grundvåg, S.-A.** (2019) Geochemical signal of Triassic successions at the Svalis Dome, SW Barents Sea – illustrating the potential of the XRF Core Scanner. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Poster presentation.
- Paulsen, S. R., **Grundvåg, S.-A.**, Senger, K. and Stueland, E. (2019) Seal Integrity in the Uplifted Basins in the greater Hoop Area on the Northern Barents Shelf. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Poster presentation.
- Paulsen, S. R., **Grundvåg, S.-A.**, Senger, K. and Stueland, E. (2019) Seal Integrity in the Uplifted Basins in the greater Hoop Area on the Northern Barents Shelf. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Oral presentation.
- Salomon, E., Rotevatn, A., Kristensen, T.K., **Grundvåg, S.-A.**, Henstra, G.A. and Meckler A.N. (2019) Fluid circulation and fault-controlled diagenesis along a major syn-rift border fault system – the Dombjerg Fault and the Wollaston Forland Basin, NE Greenland. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Oral presentation.
- Salomon, E. Rotevatn, A., Kristensen, T.K., **Grundvåg, S.-A.** and Henstra, G.A. (2019) The deformational evolution in a hanging wall damage zone of a syn-rift border fault system – the Dombjerg Fault, NE Greenland. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Poster presentation.
- Wesenlund, F., Engelschiøn, V. S., Bernhardsen, S., **Grundvåg, S.-A.**, Thiessen, O., Pedersen, J. H. and Skeie, J. E. (2019) Organic facies influence on bitumen-derived thermal maturity parameters

in Lower–Upper Triassic shales, Edgeøya, Eastern Svalbard. ARCEX Annual Conference 2019, October 22nd–24th, Sommarøya, Norway. Poster presentation.

2020 (10)

- Hagset, A.H., **Grundvåg, S.-A.**, Badics, B., Davies, R. and Rotevatn, A. (2020) Lower Cretaceous source rocks in the SWB Barents Sea – Aptian and Cenomanian potential. 34th Nordic Geological Winter Meeting, January 8-10th 2020, Oslo, Norway. Oral presentation.
- Olaussen, S. Senger, K., Braathen, A., Grundvåg, S.-A. & Mørk, A. (2020). You learn as long as you drill. Predicted and unpredicted subsurface results from the Mesozoic in Adventdalen, UNIS CO2 Lab, Svalbard, Norway. 34th Nordic Geological Winter Meeting, January 8-10th 2020, Oslo, Norway. Oral presentation.
- Wesenlund, Fredrik; Grundvåg, Sten-Andreas; Thiessen, Olaf; Pedersen, Jon Halvard; Skeie, Jon Erik (2020). The role of source facies on bitumen-derived thermal maturity parameters, Lower–Upper Triassic, Svalbard. 34th Nordic Geological Winter Meeting, January 8-10th 2020, Oslo, Norway. Oral presentation.
- Hegstad, S.K., Ahokas, J., Forwick, M. and **Grundvåg, S.-A.** (2020) Chemostratigraphy of Triassic successions on the southern Barents Sea Shelf - preliminary results from XRF Core Scanning. EGU General Assembly, May 3-8th 2020, Vienna, Austria. Digital online presentation.
- Salomon, E., Rotevatn, A., Kristensen, T.K., **Grundvåg, S.-A.**, Henstra, G.A. and Meckler A.N. (2020) Fault-controlled diagenesis and fluid circulation along a major syn-rift border fault system; insights from the Dombjerg Fault, Wollaston Forland Basin, NE Greenland. EGU General Assembly, May 3-8th 2020, Vienna, Austria. Digital presentation.
- Hagset, A., **Grundvåg, S.-A.**, Badics, B., Davies, R. and Rotevatn, A. (2020) Lower Cretaceous source rocks, SW Barents Sea. ARCEX Annual Conference 2020 - Virtual Edition, October 19th–22nd, online presentation.
- Paulsen, R.S., **Grundvåg, S.-A.**, Senger, K. and Stueland, E. (2020) Seal Characterization and Seal Integrity in Uplifted Basins on the Barents Shelf, the Greater Hoop Area. ARCEX Annual Conference 2020 - Virtual Edition, October 19th–22nd, online presentation.
- Weber, M., Laberg, J.S., Lasabuda, A., **Grundvåg, S.-A.**, Knutsen, S.M. and Rydningen, T.A. (2020) Cenozoic evolution of the northern Barents Sea-Svalbard Area. ARCEX Annual Conference 2020 - Virtual Edition, October 19th–22nd, online presentation.
- Wesenlund, F., Thiessen, O., Engelschiøn, V.S., Pedersen, J.H. and **Grundvåg, S.-A.** (2020) Linking facies descriptions, total organic carbon and bitumen richness – a case study from the Middle Triassic black shales of eastern Svalbard. ARCEX Annual Conference 2020 - Virtual Edition, October 19th–22nd, online presentation.
- Spychala, Y.T., Ramaaker, T.A.B., Eggenhuisen, J.T., **Grundvåg, S.-A.**, Pohl, F. and Wróblewska, S. (2020) Proximal to distal grain-size distribution of basin-floor lobes: A study from the Battfjellet Formation, Central Tertiary Basin, Svalbard. The 59th British Sedimentological Research Group Annual General Meeting, December 19th– 22nd 2020, virtual meeting. Oral presentation.

Upcoming contributions in 2021 (5)

- Senger, S., Jochmann, M., Smyrak-Sikora, A., Betlem, P., Planke, S., Mørk, A., Olaussen, S., **Grundvåg, S.-A.**, Schiellerup, H., Lord, G. and Jensen, M. (2021) Filling the Svalbard Rock Vault: Opportunities for deep-time paleoclimate studies. NGF Winter Conference, January 6– 8th, 2021, online edition. Scheduled for oral presentation.
- Senger, S., Betlem, P., Birchall, T., **Grundvåg, S.-A.**, Mørk, A., Planke, S. and Smyrak-Sikora, A. (2021) Digital Festningen: a dark season journey through 300 million years of geological evolution. NGF Winter Conference, January 6– 8th, 2021, online edition. Scheduled for oral presentation.
- Hagset, A., **Grundvåg, S.-A.**, Badics, B., Davies, R. and Rotevatn, A. (2021) Lower Cretaceous source rocks on the SW Barents Shelf, NPF Petroleum System Conference, February 2nd–3rd 2021, Oslo, Norway. Scheduled for oral presentation.

- Wesenlund, W., **Grundvåg, S.-A.**, Engelschiøn, V., Thiessen, O., Pedersen, J.H. and Skeie, J.E. (2021) The role of water mass restriction vs production on Lower–Middle Triassic source rock formation in Svalbard. NPF Petroleum System Conference, February 2nd–3rd 2021, Oslo, Norway. Scheduled for oral presentation.
- Hagset, A., Badics, B., **Grundvåg, S.-A.**, Davies, R. and Rotevatn, A. (2021) Lower Cretaceous source rocks on the SW Barents Shelf. EAGE 82nd annual conference and exhibition, June 14–17th 2021, Amsterdam, Netherlands. Scheduled for oral presentation.

8. Teaching activity

Since 2010, I have taught courses at UiB, UNIS and UiT. I have acted as course responsible for two courses at UNIS and UiT. In addition, I have acted as guest lecturer in several courses at these three institutions. More detailed information are found in my teaching portfolio.

2019–Present	AG-323 – ‘Sequence Stratigraphy – a tool for basin analysis’, UNIS. Guest lecturer and field assistant.
2016–Present	GEO-3112 – ‘Sedimentary Processes and Products’, UiT. Course responsible and main lecturer.
2016–Present	GEO-3113 – ‘Field Course in Exogene Geology’, UiT. Co-teacher.
2018	AG-222 – ‘Integrated Geological Methods: From Outcrop to Geomodel’, UNIS. Guest lecturer.
2017	AG-322 – ‘Fold and Thrust Belts and Foreland Basin Systems’, UNIS. Guest lecturer.
2016	GEO-3123 – ‘Marine Geophysics’, UiT. Guest lecturer.
2016	AG-338 – ‘Sedimentology Field Course – from depositional systems to sedimentary architecture’, UNIS. Guest lecturer.
2014	AG-338 – ‘Sedimentology Field Course – from depositional systems to sedimentary architecture’, UNIS. Course responsible and main lecturer.
2013–2015	AG-209 – ‘The Tectonic and Sedimentary History of Svalbard’, UNIS. Guest lecturer.
2011–2017	AG-323 – ‘Sequence Stratigraphy – a tool for basin analysis’, UNIS. Guest lecturer and field assistant.
2010	GEOV107 – ‘Introduction to Sedimentology’, UiB. Teaching assistant during undergraduate one-week field trip to the Pyrenees.
2010	GEOV361 – ‘Sequence Stratigraphy’, UiB. Teaching assistant during the fall semester of 2010.

9. Supervision of graduate students and research fellows

At present, I am the main supervisor of four and the co-supervisor of two PhD candidates at UiT The Arctic University of Norway (UiT). Three of these will submit and defend their theses in 2021. I am also the co-supervisor of a PhD candidate affiliated to the University Museum (UM) in Tromsø, Norway, and one MSc student affiliated to the University of Bergen (UiB). Previously, I have successfully supervised two PhD candidates, one affiliated to UiB, and the second to the University of Copenhagen (UCPH), Denmark. Since 2014, I have supervised multiple MSc students at UiT, UiB, UNIS and UCPH. In addition, I have also provided guidance and supervision for several semester projects at MSc and PhD level.

Co-supervisor of graduated PhD candidates (2)

- 2016–2020 Dr. Mads Jelby, UCPH. Dissertation title: '*Depositional dynamics and holostratigraphy of the Lower Cretaceous Rurikfjellet Formation in Arctic Svalbard: From local storm sedimentation to global carbon cycling*'. Main supervisor: Lars Stemmerik (Geological Survey of Denmark and Greenland, GEUS). Other co-supervisors: Snorre Olaussen (UNIS), William Helland-Hansen (UiB).
- 2014–2016 Dr. Thomas Berg Kristensen, UiB. Dissertation title: '*The structure and evolution of fault systems from outcrop to margin scale. Outcrop and subsurface insights from rift- and transtensional basins in East Greenland and the Western Barents Margin (offshore Norway)*'. Main Supervisor: Prof. Atle Rotevan (UiB). Other supervisors: Rodmar Ravnås (Shell).

Main supervisor of active PhD candidates (4)

- 09.2020–
10.2024 Julian Janocha, UiT. Preliminary thesis title: '*Effects of tectonic and climatic forcing on Upper Paleozoic rift basin sequences, Svalbard*'. Co-supervisors: Kim Senger (UNIS), Atle Rotevatn (UiB).
- 09.2018–
10.2022 Andreas Hagset, UiT. Preliminary thesis title: '*Lower Cretaceous source rocks and regional basin development from the Vøring Basin to the Western Barents Shelf*'. Co-supervisors: Balacs Badiz (WintershallDea), Roy Davies (WintershallDea), Atle Rotevatn (UiB).
- 09.2018–
10.2021 Renate Paulsen, UiT. Preliminary thesis title: '*Trap and seal analysis of the northern Barents Shelf*'. Co-supervisors: Kim Senger (UNIS), Erik Stueland (OMV), Alexander Hartwig (AkerBP ASA).
- 04.2017–
05.2021 Fredrik Wesenlund, UiT. Preliminary thesis title: '*Sedimentology and geochemistry of Triassic source rocks in the N–NE Norwegian Barents Sea*'. Co-supervisors: Olaf Thiessen (Equinor ASA), Jon Erik Skeie (AkerBP ASA), John Hallvard Pedersen (Lundin Norway).

Co-supervisor of active PhD candidates (3)

- 06.2017–
07.2021 Sigrun Maret Kvendbø Hegstad, UiT. Preliminary thesis title: '*Geochemically enhanced correlation of Triassic successions in the Barents Sea and implications for sediment provenance and palaeo-environmental reconstructions*'. Main Supervisor: Matthias Forwick (UiT). Other co-supervisor: Juha Ahokas (AkerBP ASA)
- 07.2020–
08.2024 Maximilian Weber, UiT. Preliminary thesis title: '*Cenozoic Evolution of the Northern Barents Sea–Svalbard Area*'. Main Supervisor: Jan Sverre Laberg (UiT). Other co-supervisors: Amando Lasabuda (UiT), Tom Arne Rydningen (UiT), Stig-Morten Knutsen (Norwegian Petroleum Directorate), Wolfram Geissler (Alfred Wegener Institute).
- 2017–(2022) Linn Kristin Novis, UM/UiT. PhD project as part of the *Digermulen Early Life Research Group*. Scheduled to submit thesis in early 2022. Main supervisor: Anette Högström (UM/UiT). My role as co-supervisor is of administrative

character being the formal contact person between the UM and the Department of Geosciences at UiT.

Main supervisor of graduated MSc students (7)

2018–2020	Julia Skorgenes, UiT. Thesis title: <i>'Sedimentology of Late Precambrian storm-influenced pro-deltaic successions: Varanger, eastern Finnmark'</i> . Co-supervisor: N/A.
2018–2019	Egil Edvardsen, UiT. Thesis title: <i>'The Bigganjárgga Tillite re-visited: a stratigraphic and sedimentological study'</i> . Co-supervisor: Erland Lebesbye (UiT).
2017–2018	Adam Brennhaug, UiT. Thesis title: <i>'A combined 3D seismic and core study of the Lower Cretaceous successions in the north-eastern part of the Nordkapp Basin'</i> . Co-supervisor: Iver Martens (UiT).
2017–2018	Ingrid Tennevassås, UiT. Thesis title: <i>'Characterisation of palaeosols in the Lower Cretaceous Helvetiafjellet Formation, Svalbard'</i> . Co-supervisor: Prof.Snorre Olaussen (UNIS).
2017–2018	Thea Marie Engen, UiT. Thesis title: <i>'A sedimentological study of the Lower Cretaceous Glitrefjellet Member, Svalbard'</i> . Co-supervisor: Prof.Snorre Olaussen (UNIS).
2016–2017	Elliot Broze, UiT. Thesis title: <i>'The occurrence of flow transformations within sandy submarine fans – a case study from Svalbard'</i> . Co-supervisor: Prof.William Helland-Hansen (UiB/UNIS).
2015–2016	Erika Njå, UiB/UNIS. Thesis title: <i>'The sequence stratigraphic development of the Late Permian Kapp Starostin Formation, central Spitsbergen'</i> . Co-supervisor: Prof.William Helland-Hansen (UiB/UNIS).

Co-supervisor of MSc students (8 graduated, 1 active)

2020–(2022)	Sigrid Solem Næsheim, UiB/UNIS. Thesis title: <i>'Sedimentology of the Battfjellet Formation, Longyearbyen area'</i> . Main supervisor: Prof. William Helland-Hansen (UiB).
2017–2018	Kristine Larssen, UiT/UNIS. Thesis title: <i>'Integrated characterization of the Upper Permian Kapp Starostin Formation in central Spitsbergen, Svalbard'</i> . Main supervisor: Assoc.Prof.Kim Senger (UNIS).
2017–2018	Louise Kristiansen Poole, UiB/UNIS. Thesis title: <i>'Sedimentology of the Paleogene succession at Calypsostranda, Svalbard'</i> . Main supervisor: Prof.William Helland-Hansen (UiB).
2017–2018	Karoline Thu Skjærpe, UiB/UNIS. Thesis title: <i>'Sedimentological facies analyses of Clinothem 8C (Eocene), Battfjellet Formation, Brogniartfjella'</i> . Main supervisor: Prof.William Helland-Hansen (UiB).
2016–2017	Marte Festøy, UiT/UNIS. Thesis title: <i>'Integrated characterization of igneous intrusions in Central Spitsbergen'</i> . Main supervisor: Assoc.Prof.Kim Senger (UNIS).
2013–2015	Mads Engholm Jelby, UCPH/UNIS. Thesis title: <i>'Sedimentology and sequence stratigraphy of the Lower Cretaceous Rurikfjellet Formation, central Spitsbergen'</i> . Main supervisor: Prof.Lars Stemmerik (UNIS/UCPH).

2014–2015	Andreas Gillebo Kongsgård, UiB/UNIS. Thesis title: ' <i>Sedimentology of channel-deposits of the Aspelintoppen Formation, Brogniartfjella, Svalbard</i> '. Main supervisor: Prof. William Helland-Hansen (UiB).
2014–2015	Knut Jørgen Williamsen. Thesis title: ' <i>Sedimentology of inter-channel deposits of the Aspelintoppen Formation, Brogniartfjella, Svalbard</i> '. Main supervisor: Prof. William Helland-Hansen (UiB).
2013–2014	Olav Naustad, UiB/UNIS. Thesis title: ' <i>Sedimentology of the Aspelintoppen Formation (Eocene-Oligocene), Brogniartfjella, Svalbard</i> '. Main supervisor: Prof. William Helland-Hansen (UiB). Other supervisors: Dirk Knaust (Equinor).

Supervision of semester and special curriculum projects (3)

2018	Sigrun Maret Kvendbø Hegstad, UiT. GEO-8810: PhD special curriculum, 10 ECTS, fall semester 2018. Thesis title: ' <i>Triassic hydrocarbon potential of the Barents Shelf: an overview of play models and controlling factors</i> '.
2016	Elliot Broze, UiT. GEO-3221: Geology project, 5 ECTS, spring semester 2016. Title of thesis: ' <i>Beyond Bouma: a brief review of the processes and products of submarine gravity flows</i> '.
2015	Marte Festøy, UiT. Geo-3222: Geology project, 10 ECTS, fall semester 2015. Title of thesis: ' <i>Impacts of igneous intrusions on the petroleum system</i> '

10. Project management

I have experience in leading and co-leading projects of various sizes from small-scale, single-PhD projects financed by one company to large consortia and research collaborations financed by the RCN. Since 2015, I have been the co-leader of Work Package 2 'Petroleum systems and play models' and 'Work Package Geology' (a merge of WP 1 and WP 2) of 'The Research Centre for Arctic Petroleum Exploration' (ARCEX). In 2017, I was appointed deputy director of ARCEX. This has given my valuable experience in leading and organizing large triple helix (i.e. public sector-academia-business) research collaborations.

2019–(2022)	Collaborator of the 13.81 MNOK/c. 1.36 M€ RCN-funded Suprabasin project administrated by the University of Oslo (UiO). Responsible for Bjørnøya fieldwork component and one associated PhD candidate.
2017–Present	Deputy director of the 231.4 MNOK/c. 22.88 M€ RCN-funded, 8-years project ' <i>Research Centre for Arctic Petroleum Exploration (ARCEX)</i> '.
2018–Present	Project leader of the 3.96 MNOK/c. 391 K€ WintershallDea-funded ' <i>Lower Cretaceous source rocks and regional basin development from the Vøring Basin to the Western Barents Shelf</i> '. One PhD candidate. Project runs until 2022.
2017–Present	Work package leader of the merged ' <i>WP Geology</i> ' of ARCEX (together with Assoc.Prof. Kim Senger, UNIS). Responsible for the scientific focus and research progress with average annual budgets of: 7.6 MNOK/c. 751 K€.
2015–2017	Co- leader of ARCEX WP 2 ' <i>Petroleum systems and play concepts</i> ' (together with Assoc.Prof. Kim Senger, UNIS). Responsible for the scientific focus and research progress with average annual budgets of: 3.5 MNOK/c. 346 K€.

- 2014–2015 Assistant leader of ARCEX WP2 ‘*Petroleum systems and play concepts*’ (together with Prof.Snorre Olaussen, UNIS).
- 2012–2017 Postdoctoral research fellow with responsibility for Svalbard outcrop studies in the industry-funded consortium ‘*Lower Cretaceous Basin studies in the Arctic*’ (LoCrA). Project led by the University of Stavanger (UiS). 22 MNOK/c. 2.17 M€.

11. Project participation

Ongoing projects (6)

- 2020–
2021 [Svalbox2020](#) – ‘*Digital teaching and outreach of Arctic Geology*’.
Leading institution: The University Center in Svalbard (UNIS).
Objectives: The project focusses on utilizing digital tools to innovate teaching and outreach on Arctic Geology. The project builds on previous UArctic-funded projects led by UNIS, in particular the functional and actively used Svalbox data portal. Svalbox2020 provides a major step forward that will allow interactive usage of the portal for education, outreach and research.
Budget: 400.000 NOK/c. 39.56 K€ (funded by UArctic).
My role: Project collaborator and guest lecturer at UNIS.
- 2019–
(2022) [Suprabasins](#) – ‘*Sedimentary response to growth of major extensional fault systems*’.
Leading institution: University of Oslo.
Objectives: The main focus of the Suprabasins project is on the development and modification of extensional basins linked to major, long-lived fault zones, with scopes into sedimentary architecture and associated distribution of reservoirs, footwall rebound controlling sedimentary fairways, landscape denudation as temporal sediment source, and burial history of basins. Proposed work is tailored to challenges of the prolific Frøya, Utsira and Loppa highs, which represent large, temporally constrained uplifts behind major rift-bounding faults.
Total budget: 13.8 MNOK/c. 1.36 M€ (RCN; Petromaks II programme). Additional industry support from Equinor ASA, Spirit Energy AS, Lundin Norway and AkerBP ASA.
My role: Research collaborator and the main supervisor of a PhD candidate at UiT associated to the project. I am responsible for Bjørnøya fieldwork, contributing to Work Package 3 ‘*Analogue datasets*’, specifically focusing on tasks 7 (‘*investigate the Hornsund High and the Bjarmeland Platform*’), 9 (‘*Alluvial fan composition forecasting uplands*’) and 10 (‘*Sediment maturity in fluvial catchments*’).
- 2018–
(2022) ‘*Organic geochemical assessment and mapping of potential oil-prone Lower Cretaceous source rocks in the Vøring and Western Barents Sea Basins, Norway*’
Leading institution: UiT The Arctic University of Norway.
Objectives: Investigate the presence and distribution of possible oil-prone source rocks within the Lower Cretaceous successions in the Vøring and Western Barents Sea basins, and assess their source rock potential.
Total budget: 3.96 MNOK/c. 391 K€ (the project is financed by WintershallDea).
My role: I am the project leader and the main supervisor of the PhD candidate of the project.
- 2017–
(2021) [ISBAR](#) – ‘*Internal and external forcing factors on the Source-to-Sink infill dynamics of the Lower Mesozoic Barents Sea Basin*’.
Leading institution: University of Bergen (UiB).
Objectives: The project investigate sediment sources to Triassic Greater Barents Sea (Barents Sea, Timan-Pechora Basin, Kara Sea) and landscape development in the

surrounding uplands. Correlate well-dated stratigraphy from Norway to Russian sectors using seismic and well data. Relate changes in sediment volumes to regional tectonics using mass-balance models. Important for sand prediction in the basin.

Total budget: 13.71 MNOK/c. 1.35 M€ (RCN; Petromaks II programme). Additional in-kind contributions from UiB and UiO.

My role: Research collaborator and I have provided provenance samples and sedimentological data from Svalbard.

2017–
(2021) **BARENTSGEOCHEM** – ‘*Geochemically enhanced correlation of Triassic successions in the Barents Sea and implications for sediment provenance and palaeo-environmental reconstruction*’.

Leading institution: UiT The Arctic University of Norway.

Objectives: The overall goal of the project is to test the potential of XRF (X-ray fluorescence) core scanning as an analytic tool applied on siliciclastic drill cores from the Barents Sea.

Budget: 4.96 MNOK/c. 491 K€. The project is financed by AkerBP ASA.

My role: I am the co-supervisor of PhD candidate Sigrun Maret Kvendbø Hegstad (UiT) together with Juha Ahokas (AkerBP ASA) and Matthias Forwick (UiT; main supervisor).

2013–
(2021) **ARCEX** – ‘*The Research Centre for Arctic Petroleum Exploration*’.

Leading institution: UiT The Arctic University of Norway.

Objectives: ARCEX is a triple helix-research collaboration between academia and industry with support from the Research Council and Norwegian authorities. Through a common effort, ARCEX contribute to the understanding of the geology and resource potential of the high north, as well as developing new geophysical exploration techniques suitable for the Arctic, and new models for environmental risk connected to operations in the north. Education and training is an integrated part of ARCEX.

Total budget: 231.400.000 NOK/c. 22.88 M€ (financed by RCN plus industry consortia currently consisting of OMV, WintershallDea, Lundin Norway, AkerBP ASA, ENI Vår Energi and Equinor ASA).

My role: I am the deputy director of the project and leader of WP Geology (which I co-lead together with Assoc.Prof.Kim Senger at UNIS). I have the responsibility to coordinate the research focus and activity of multiple PhD and postdoctoral fellows spread across several universities (UiO, UiB, UiT, UNIS), as well as collaborate and communicate with industry partners and governmental organizations (e.g. NPD).



Terminated projects (5)

2014–
2019 **EuroSEDS** – ‘*Eurotank Studies of Experimental Deepwater Sedimentology*’.

Leading institution: Utrecht University

Objectives: This project aims to elucidate the link between turbidity current processes and their deposits on the level of 1D lithofacies, 2D facies tracts and 3D architecture, by combining flume tank experiments and outcrop investigations of turbidite lobes.

Total budget: N/A (financed by the Dutch Research Council and industry companies).

- My role: Project collaborator. I contributed to data collection in central Spitsbergen and acted as the local geology guide during a two-week fieldwork campaign in 2017.
- 2012–
2017 **LoCrA** - '*Lower Cretaceous basin studies in the Arctic*'.
Leading institution: University of Stavanger.
Objectives: The main goal of this project was to improve our understanding of the basin configuration, structural style and depositional setting of the Lower Cretaceous basins in the high Arctic for improved prediction of coarse-grained siliciclastic wedges on the Norwegian Continental Shelf.
Total budget: c. 22 MNOK/c. 2.17 M€ (financed by an industry consortia of more than 20 companies).
My role: I was one of the postdoctoral fellows financed by the LoCrA consortium. My main responsibility was outcrop data collection in Svalbard.
- 2013–
2016 **WEBMAR** – '*TectonoSedimentary Evolution of the Western Barents Sea Margin*'.
Leading institution: University of Bergen (UiB).
Objectives: The main aim of this project was to elucidate the structural styles and tectonosedimentary evolution of marginal, sheared basins, and further understand of how they had been affected by their location relative to major margin segments.
Total budget: 3.96 MNOK/c. 391 K€ (financed by Norske Shell ASA).
My role: I was the co-supervisor of PhD candidate Thomas Berg Kristensen together with Ate Rotevatn (UiB; main supervisor) and Rodmar Ravnås (co-supervisor; Shell ASA). I also joined field campaigns to Svalbard and NE Greenland, and contributed on several papers.
- 2012–
2015 **TELMA** – '*Tectonosedimentary Evolution of the Lofoten Margin*'.
Leading institution: University of Bergen (UiB).
Objectives: This project aimed at refining the structural framework of the Nordland VI area of the Lofoten Margin and investigate structural and sedimentary interaction within the Lower Cretaceous basin fill. In addition, the project included a comparative field study in NE Greenland, focusing on coarse-grained deposits in a deep water rift basin.
Total budget: 3.96 MNOK/c. 391 K€ (financed by Norske Shell ASA).
My role: I joined a field campaign to NE Greenland and contributed to one of the key papers of the project (Henstra et al., 2016).
- 2010–
2012 **Geoillustrator** – '*Methods and tools for illustrative visualization of earth models*'.
Leading institution: University of Bergen/Christian Michelsen research (CMR), Bergen, Norway.
Objectives: The main objective of this project was to facilitate improved understanding of geology by developing methods for rapid and intuitive digital sketching of subsurface geology.
Total budget: c. 10.1 MNOK/c. 998 K€ (from the RCN). Additional in-kind contributions from UiB, Statoil and CMR, Bergen, Norway.
My role: I provided geological data to the project through my PhD project, and I increased the geoscience competence of the project team. I closely cooperated with a PhD candidate at CMR, and I demonstrated a prototype of the software during my PhD defense in 2012.

12. Research collaborators

I have a broad network spanning all major universities in Norway (UiO, UiS, UiB, NTNU and UNIS), and the (currently) most important energy companies exploring the Norwegian Continental Shelf (particularly those focusing on the Barents Shelf and the Mid-Norwegian Shelf) including Equinor ASA, AkerBP ASA, Lundin Norway, ENI Vår Energi, OMV and WintershallDea. I have a close dialogue with other governmental institutions such as the Norwegian Petroleum Directorate (NPD), the Norwegian Polar Institute (NPI), the Geological Survey of Norway (NGU), and the Geological Survey of Denmark and Greenland (GEUS; Denmark). In addition, I have several ongoing international collaborations with amongst others the University of Copenhagen (Denmark), the University of Hannover (Germany), the Utrecht University (Netherlands) and the University of Basilicata (Italy). A selection of past and present external collaborators and their affiliations is provided below.

- Assoc.Prof. Kim Senger, Department of Arctic Geology, University Centre in Svalbard, Norway. Fields of cooperation: co-leading WP Geology of ARCEX, co-supervision of MSc and PhD students, digital outcrop models, subsurface studies in Svalbard and the northern Barents Shelf, and teaching various courses at UNIS.
- Dr. Aleksandra Smyrak-Sikora, Department of Arctic Geology, University Centre in Svalbard, Norway. Fields of cooperation: Upper Paleozoic rift-basin studies in Svalbard.
- Prof.Snorre Olaussen, Department of Arctic Geology, University Centre in Svalbard, Norway. Fields of cooperation: the Mesozoic succession in Svalbard, guiding industry companies, co-supervision of MSc and PhD students, and teaching courses at UNIS.
- Prof. Atle Rotevatn, Department of Earth Science, University of Bergen, Norway. Fields of cooperation: tectonostratigraphic studies in NE Greenland and co-supervision of PhD candidates.
- Assoc.Prof. Christian Haug Eide, Department of Earth Science, University of Bergen, Norway. Fields of cooperation: Triassic source to sink studies on the Barents Shelf.
- Prof. William Helland-Hansen, Department of Earth Science, University of Bergen, Norway. Fields of cooperation: sedimentology of the Paleogene succession in Spitsbergen, co-supervision of PhD and MSc students, and teaching courses at UNIS.
- Assoc.Prof. Dora Marín Restrepo, Department of Petroleum Engineering, University of Stavanger, Norway. Fields of cooperation: subsurface studies of the Lower Cretaceous succession on the Barents Shelf (the LoCrA project).
- Prof. Alejandro Escalona, Department of Petroleum Engineering, University of Stavanger, Norway. Fields of cooperation: subsurface studies of the Lower Cretaceous succession on the Barents Shelf (the LoCrA project).
- Prof. Per Terje Osmundsen, Norwegian University of Science and Technology (NTNU), Trondheim, Norway. Fields of cooperation: integrated studies of the Paleogene Forlandsundet Graben in Spitsbergen and the Upper Paleozoic of southern Spitsbergen (the Suprabasin project).
- Prof. Atle Mørk, NTNU, Trondheim, Norway. Fields of cooperation: stratigraphic studies of the Triassic succession in Svalbard.
- Dr. Mads Jelby, Department of Geosciences and Natural Resource Management, University of Copenhagen, Denmark. Fields of cooperation: sedimentology of storm deposits and stratigraphic studies of the Lower Cretaceous succession onshore Svalbard.

- Prof. Jan Inge Faleide, Department of Geosciences, University of Oslo, Norway. Fields of cooperation: project management, synthesis of ARCEX, and subsurface Barents Shelf studies.
- Prof. Alvar Braathen, Department of Geosciences, University of Oslo, Norway. Fields of cooperation: integrated studies of the Upper Paleozoic of southern Spitsbergen (the Suprabasin project), and teaching courses at UNIS.
- Assoc. Prof. Ivar Midtkandal, Department of Geosciences, University of Oslo, Norway. Fields of cooperation: sedimentology of the Barremian to Aptian paralic succession in Svalbard.
- Dr. Grace Shephard, Department of Geosciences/Centre for Earth Evolution and Dynamics (CEED), University of Oslo, Norway. Fields of cooperation: teaching at UNIS and co-supervision of a new PhD project.
- Dr. Olaf Thiessen, Equinor, Harstad, Norway. Fields of cooperation: source rock studies of the Upper Paleozoic and the Lower Cretaceous succession in Svalbard, and co-supervision of a PhD candidate.
- Dr. Thomas Berg Kristensen, Equinor, Sandsli, Norway. Fields of cooperation: structural studies of the Mesozoic rift basins in NE Greenland.
- Dr. Gijs Henstra, AkerBP, Oslo, Norway. Fields of cooperation: sedimentological studies of the Mesozoic rift basins in NE Greenland.
- Juha Ahokas, AkerBP, Harstad, Norway. Fields of cooperation: Triassic studies on the Barents Shelf and co-supervision of a PhD candidate.
- Dr. Balazs Badics, WintershallDea, Stavanger, Norway. Fields of cooperation: source rock studies of Lower Cretaceous strata in the SW Barents Shelf, and co-supervision of a PhD candidate.
- Rune Matningsdal, the Norwegian Petroleum Directorate (NPD), Harstad, Norway. Fields of cooperation: ROV subcrop studies on the Barents Shelf and onshore to offshore comparative studies in the northern Barents Shelf.
- Dr. Jochen Knies, the Geological Survey of Norway (NGU), Trondheim, Norway. Fields of cooperation: ROV subcrop studies along the Norwegian Continental Shelf Margin.
- Dr. Marco Brönnner, the Geological Survey of Norway (NGU), Trondheim, Norway. Fields of cooperation: gravimetric and magnetic studies of Bjørnøya.
- Erik P. Johannessen, private consultant (Equinor pensioner), Stavanger, Norway. Fields of cooperation: sedimentological studies of the Upper Paleozoic in Bjørnøya and the Paleogene succession in Spitsbergen.
- Dr. Kasia K. Śliwińska, Geological Survey of Denmark and Greenland (GEUS), Copenhagen, Denmark. Fields of cooperation: biostratigraphy of the Lower Cretaceous succession, Svalbard.
- Dr. Yvonne Therese Spychala, Institute of Geology, University of Hannover, Germany. Fields of cooperation: sedimentology of turbidite lobes in the Paleogene succession in Spitsbergen.
- Assist.Prof. Joris Eggenhuisen, Utrecht University, Netherlands. Fields of cooperation: sedimentology of turbidite lobes in the Paleogene succession in Spitsbergen.
- Dr. Florian Pohl, Department of Earth Sciences, Durham University, UK. Fields of cooperation: sedimentology of turbidite lobes in the Paleogene succession in Spitsbergen.
- Assist.Prof. Sergio Longhitano, Department of Sciences, Basilicata University, Italy. Fields of cooperation: sedimentology of ancient tidal deposits and Dr. Longhitano will be the host of my planned research stay in Italy (in the fall of 2022).

13 Fieldwork experience

I have gained extensive fieldwork experience (>280 days) as part of my own research, from collaborations with national and international research institutions, from guiding geological excursions for companies in the petroleum sector and governmental institutions (e.g. NPD and NGU), as well as from teaching field courses and supervising students with fieldwork-oriented projects. Below is an overview of the most important field studies and excursions that I have organized or in which I have participated. The list below provides an overview of field trips longer than one day. Furthermore, field trips related to my teaching are excluded (collectively these activities accounts for several months of fieldwork experience).

- | | |
|---------|---|
| 08.2020 | Five-days of sedimentological investigations in Varanger, eastern Finnmark, mainland Norway, focusing on Precambrian sedimentary rocks. Participating personnel from: UiT. Outreach article at: https://arcex.no/pilgrimage-the-act-of-journeying-to-a-sacred-place/ |
| 06.2020 | One-week marine-geological cruise with G.O. Sars. Responsible for the ROV subcrop/seafloor bedrock-sampling programme. Participating personnel from: UiT (CAGE and ARCEX), NGU, NPD. Outreach article at: https://arcex.no/2000-leagues-across-the-seas-some-reflections-from-a-land-based-geologist-at-high-sea/ |
| 08.2019 | One-week sedimentological roundtrip with personnel from Equinor ASA focusing on the Mesozoic strata of Svalbard (from Isfjorden to Hopen). UNIS, Participating personnel from: UiT, Equinor ASA. |
| 09.2018 | One-week sedimentological roundtrip with Equinor focusing on the Mesozoic strata of Svalbard (from Isfjorden to Edgeøya and Hornsund). Participating personnel from: UNIS, UiT, Equinor ASA. |
| 09.2018 | Three-days of sedimentological investigations in Varanger, eastern Finnmark, mainland Norway, focusing on Precambrian sedimentary rocks. Participating personnel from: UiT. |
| 08.2018 | Two weeks of sedimentological and structural fieldwork in NE Greenland focusing on Upper Jurassic-Lower Cretaceous rift basin sequences. Airplane and tent-based campaign. Participating personnel from: UiT, UiB. Outreach article at: https://arcex.no/in-the-heat-of-the-arctic-summer-geological-travel-blog-from-east-greenland/ |
| 04.2018 | Three successive day trips to Sassendalen to sample the Middle Triassic Botneheia Formation black shales. Snowmobile-based campaign. Participating personnel from: UiT. |
| 09.2017 | One-week sedimentological and structural investigations at Bjørnøya. Boat-based expedition. I acted as expedition leader. Participating personnel from: UiT, NPD, NTNU, UNIS. Outreach article by PhD candidate Fredrik Wesenlund at: https://arcex.no/field-excursions-in-svalbard-with-statoil-and-the-npd-summer-2017/ |
| 08.2017 | One-week sedimentological and structural expedition with personnel from Equinor ASA focusing on the Mesozoic strata of Svalbard (from Isfjorden to Hopen). Participating personnel from: UNIS, UiT, Equinor ASA. |

- 08.2017 Two weeks sedimentological investigations at Storvola and Hyrnestabben with the University of Utrecht (UU), focusing on Eocene turbidite lobes (as part of the EuroSEDS project led by the UU). Boat-based campaign. Participating personnel from: UiT, UU.
- 09.2016 Two weeks sedimentological and structural investigations at Bjørnøya. Boat and cabin-based campaign. Participating personnel from: UiT, NGU and Equinor ASA.
- 08.2016 Five days field trip to Fotografryggen, southern Spitsbergen, focusing on the Lower Cretaceous succession. Helicopter and tent-based campaign. Participating personnel from: UiT, UCPH.
- 07.2016 Five days field trip to Hyrnestabben, central Spitsbergen, focusing on Eocene turbidite lobes. Helicopter and tent-based campaign. Participating personnel from: UiT.
- 09.2015 Local geology guide and polar bear guard during a two-day field excursion (o St.Jonsfjorden and outer Isfjorden related to the annual workshop of the '*Circum-Arctic Lithosphere Evolution*' (CALE) project. Excursion led by Prof. Arild Andresen (UiO).
- 09.2015 Local geology guide during two successive days of field excursion related to the combined '2nd Boreal Triassic Conference 2015' and '12th International Workshop on the Permo-Triassic' in Svalbard. Boat-based field trips.
- 08.2015 Four-days field trip to Dicksonfjorden, central Spitsbergen, focusing on Upper Permian carbonates. Boat and tent-based campaign. Participating personnel from: UNIS, UiB. Outreach article at: <https://arcex.no/spiculites-brachiopods-and-barking-huskies-in-dicksonfjorden-svalbard-a-closer-look-at-the-late-permian-kapp-starostin-formation/>
- 08.2015 Three-days of sedimentological investigations at Prins Karls Forland, westernmost Svalbard, focusing on the Forlandsundet Graben fill. Campaign executed after a polar bear destroyed our camp. Boat and tent-based campaign. Participating personnel from: UNIS, UiB. Outreach article at: <https://arcex.no/sheared-basin-margins-gravity-flow-deposits-and-an-unexpected-evacuation/>
- 08.2015 Three days field trip focusing on the Lower Cretaceous succession at Baronfjella in SE Spitsbergen. Helicopter and tent-based campaign. Participating personnel from: UNIS, UCPH, GEUS.
- 06.2015 Two-day field sedimentological excursion to Polish Carpathian Foredeep.
- 07.2015 Five days field trip focusing on the Lower Cretaceous succession north of Isfjorden, Spitsbergen. Helicopter and tent-based campaign. Participating personnel from: UNIS, UCPH, UiO.
- 09.2014 Three-days of sedimentological investigations at Bohemaflya, northern shores of Isfjorden, central Spitsbergen, focusing on the Lower Cretaceous succession. Boat-and tent-based campaign. Participating personnel from: UNIS, UCPH.
- 08.2014 Four days sedimentological investigations at Brogniartfjella, central Spitsbergen, focusing on fluvial strata of the Aspelintoppen Formation.

	Helicopter, boat and tent-based campaign. Participating personnel from: UNIS, UiB.
08.2014	Two weeks of fieldwork in NE Greenland focusing on Upper Jurassic-Lower Cretaceous rift basin sequences. Airplane and tent-based campaign. Participating personnel from: UiB, UiO, UNIS. Outreach article by Prof. Atle Rotevatn at: https://www.uib.no/geo/80303/feltrapport-fra-gr%C3%B8nland-bassenganalyse-p%C3%A5-h%C3%B8ygir
07.2014	One-week field trip focusing on the middle Albian succession at Schönrockfjellet in the remote SE Spitsbergen. Helicopter and tent-based campaign. Participating personnel from: UNIS and UiT. For a popular scientific outreach article, see Grundvåg, S.-A. (2016) Uendelig langt vekk fra kontoret. <i>GEO</i> , no. 4, 2016.
03.2014	Four-days winter excursion investigating Lower Cretaceous strata in Hornsund, southern Spitsbergen. Snowmobile-based campaign, accommodation at the Polish Research Station. Participating personnel from: UNIS.
08.2013	Four days of sedimentological investigations at Brogniartfjella, central Spitsbergen, focusing on fluvial strata of the Aspelintoppen Formation. Boat and tent-based campaign. Participating personnel from: UNIS, UiB.
08.2013	Five days sedimentological and stratigraphic fieldwork in western Spitsbergen focusing on the Lower Cretaceous succession. Helicopter and tent-based campaign. Participating personnel from: UNIS.
07.2013	Three weeks sedimentological and stratigraphic fieldwork in southern and eastern Spitsbergen focusing on the Lower Cretaceous succession. Helicopter, boat and tent-based campaign. Participating personnel from: UNIS.
08.2012	Three days field trip focusing on the Mesozoic stratigraphy at Festningen, west Spitsbergen. Boat and station-based campaign. Participating personnel from: UNIS.
07.2012	Five days excursion to Edgeøya and Hopen, eastern Svalbard, focusing on Triassic strata. Participating personnel from: UNIS, Wintershall, NTNU, UiB.
07.2012	One-week sedimentological and stratigraphic fieldwork focusing on Mesozoic strata in eastern Spitsbergen. Helicopter and cabin-based campaign. UNIS.
10.2010	One-week sedimentological excursion across central Patagonia, Argentina.
07–08.2010	Five weeks sedimentological and stratigraphic fieldwork focusing at Eocene strata in Nathorst Land, Spitsbergen. Fieldwork conducted for my PhD project. Helicopter and tent-based. Helicopter and tent-based campaign. Participating personnel from: UiB/UNIS.
09.2009	One-week excursion to the Apennines, Italy, focusing on the foredeep turbidite system.
09.2009	Five days fieldwork focusing on the Mesozoic stratigraphy at Festningen, west Spitsbergen. Boat and tent-based campaign. Participating personnel from: UiB/UNIS.
07.2009	Three weeks sedimentological and stratigraphic fieldwork focusing at Eocene strata in Nathorst Land, Spitsbergen. Fieldwork conducted for my

- PhD project. Helicopter and tent-based. Participating personnel from: UiB/UNIS.
- 07.2007 Three weeks sedimentological and stratigraphic fieldwork focusing at Upper Permian strata at Vindodden and Sassendalen, central Spitsbergen. Fieldwork conducted for my MSc project. Boat and tent-based campaign. Participating personnel from: UiT, University of Krakow (Poland), Uppsala University (Sweden).

14. Project proposals

I have contributed to and co-led several proposals for financial support for research and education projects. Several of these projects are collaborations between industry and academia (R&D projects). The education-related proposals are related to digitalization and virtual geology. The funding agencies include the RCN and private energy companies, as well as internal calls from ARCEX and the Petroleum Research School of Norway (NFiP). In total, the applications I have contributed to have accumulated budgets of c. 33.99 MNOK/c. 3.36 M€. The project proposals that I have been involved in as lead proponent have accumulated budgets of c. 4.57 MNOK/c. 452 K€.

- 2020 **Grundvåg, S.-A.** and Senger, K.: '1: Geochemistry and fracturing of cap rocks – integration of XRF data, 2: ARCEX synthesis Svalbard wells completion logs and reference Petrel project. 3: Paleomagnetic analysis and dating of core material from the northern continental margin of Svalbard, 4: East Svalbard research cruise'. ARCEX Internal call for field activity in 2021. 615.000 NOK/c. 60.8 K€. My role: lead-proponent.
- 2020 Senger, K., Betlem, P., Birchall, T., Smyrak-Sikora, A., Shephard, G., Gaina, C., **Grundvåg, S.-A.**, Eide, C., Lecomte, I., Coakley, B., Strauss, J.V., Ershova, V.B., Andresen, K.J., Buckley, S., Naumann, N., Ogata, K., Gonzaga da Silveira Jr., L. and Osmundsen, P.T.: 'Svalbox2020: digital teaching and outreach of Arctic Geology'. UArctic. 400.000 NOK/c. 39.5 K€. My role: co-proponent.
- 2020 Senger, K. and **Grundvåg, S.-A.**: 'Arctic Petroleum Field School – virtual edition' Petroleum Research School of Norway (NFiP), 500.000 NOK/c. 49.4 K€. My role: co-proponent.
- 2019 Braathen, A., Midtkandal, I., Faleide, J.I., Osmundsen, P.T., Senger, K., Olaussen, S., **Grundvåg, S.-A.**, Peron-Pinvidic, G., Ganerød, M., Redfield, T., Stemmerik, L., Howell, J., Maher, H., Moré, M.P., Rieber, L. and Serck, C.: 'Suprabasins – sedimentary response to growth of major extensional fault systems'. Petromaks II programme, RCN. 13.81 MNOK/c. 1.36 M€. My role: co-proponent.
- 2018 Senger, K. and **Grundvåg, S.-A.**: 'Arctic Petroleum Field School'. Petroleum Research School of Norway (NFiP), 500.000 NOK/c. 49.4 K€. My role: co-proponent.
- 2018 **Grundvåg, S.-A.** and Rotevatn, A.: 'Lower Cretaceous source rocks and regional basin development from the Vøring Basin to the Western Barents Shelf'. R&D agreement with WintershallDea, 3.96 MNOK/c. 391 K€. My role: lead proponent.

2017	Senger, K., Jensen, M., Buckley, S., Naumann, N., Grundvåg, S.-A. , Mertens, I., Eide, C.H., Lecomte, I., Nordmo, I., Mair, K., Galland, O., Gaina, C., Ogata, K., Guarnieri, P., Stemmerik, L., Coakley, B., Flaig, P. and da Silveira Jr., L.G.: ' <i>CAGE: Circum-Arctic Geology for Everyone: An integrated approach to learning and teaching in the Arctic (Project Year 2)</i> '. UArctic, 250.000 NOK/c. 24.7 K€. My role: co-proponent.
2016	Helland-Hansen, W., Gawthorpe, R.L., Stoupakova, A. Olausen, S. Hellevang, H. Klausen, T.G., Paterson, N.W., Eide, C.H.; Suslova, A.A., Grundvåg, S.-A. , Katkov, D., Ryseth, A. and Senger, K.: ' <i>ISBAR- Internal and external forcing factors on the Source-to-Sink infill dynamics of the Lower Mesozoic Barents Sea Basin</i> '. Petromaks II programme, RCN. 13.71 MNOK/c. 1.35 M€. My role: co-proponent.
2016	Senger, K., Jensen, M., Buckley, S., Naumann, N., Grundvåg, S.-A. , Eide, C.H., Nordmo, I., Mair, K., Galland, O., Ogata, K., Coakley, B., and Flaig, P.: ' <i>CAGE - Circum-Arctic Geology for Everyone: An integrated approach to learning and teaching in the Arctic</i> '. UArctic. 250.000 NOK/c. 24.7 K€. My role: co-proponent.

15. Commissions of trust and institutional responsibilities

12.2019	External member of a postdoctor appointment evaluation committee at the Department of Arctic Geology, UNIS, Norway.
10.2019	External examiner of a MSc thesis at the Department of Earth Science, University of Bergen (UiB), Norway.
09.2019	External sensor of two grade re-evaluations in AG-823, UNIS.
07.2019	External sensor of a grade re-evaluation in AG-838, UNIS.
2018–Present	Member of ' <i>Program Board</i> ' at Department of Geosciences, UiT The Arctic University of Norway.
2018–Present	Board member of ' <i>Kong Haakon den 7des Utdannelsesfond for norsk ungdom</i> ' at UiT The Arctic University of Norway.
2018–Present	Review editor for ' <i>Frontiers in Earth-Science – Sedimentology, stratigraphy and diagenesis</i> '.
2018	External member of the appointment evaluation committee for an Associate Professor-teaching position at the Department of Earth Science, UiB.
2017	External committee member of a promotion evaluation (from lector to associate professor) at Nord University, Bodø, Norway.
2017	External member of a postdoctor appointment evaluation committee at the Department of Earth Science, UiB, Norway.
2016–Present	UiT board member of the ' <i>Petroleum Research School of Norway</i> ' (NFIP).
2015–Present	Norwegian national correspondent of the ' <i>International Association of Sedimentologists</i> ' (IAS).
2015–Present	Internal sensor of 9 MSc students at the Department of Geosciences, UiT The Arctic University of Norway.
2016–2017	UiT-board member of the ' <i>Roald Amundsen Petroleum Consortium</i> ' (RAMP).
10.2016	External sensor of a grade re-evaluation in Geo4220, at the Department of Geosciences, University of Oslo, Norway.

09.2016	External examiner of a MSc thesis at the Department of Petroleum Engineering, University of Stavanger, Norway.
2009	PhD representative in a committee working with the implementation of an action plan made by the university board to secure the quality of the doctoral education at UiB (<i>'from life work to career start – a plan of action for the doctoral education at UiB 2008–2015'</i>).
2005–2006	Undergraduate student representative at UNIS, Norway.

Editorial work and invited reviews

2018–Present	Review editor for <i>Frontiers in Earth-Science – Sedimentology, stratigraphy and diagenesis</i> .
2014–Present	I have done referee work for the following journals: <i>Sedimentology, Basin Research, Geology, Geological Society Special Publication, Marine and Petroleum Geology, Ichnos, Journal of Sedimentary Research, Geological Magazine, Cretaceous Research, Norwegian Journal of Geology, and Geological Field Trips and Maps</i> .

16. Organization of scientific meetings

2020	Member of the organizing committee of the <i>'ARCEX annual conference 2020'</i> , October 19–22 nd 2020, online meeting. Convener of one session.
2019	Member of the organizing committee of the <i>'ARCEX annual conference 2019'</i> , October 22 nd –24 th 2019, Sommarøya, Norway. WP Geology update and convener of one session.
2018	Member of the organizing committee of the <i>'ARCEX annual conference 2018'</i> , October 9–11 th 2018, Longyearbyen, Norway. WP Geology update, lead one of the excursions and organized a demo session.
2017	Member of the organizing committee of the <i>'ARCEX annual conference 2017'</i> , May 10–11 th 2017, Malangen, Norway. WP Geology update and convener of one session.
2017	Member of the conference programme committee, <i>'Arctic Days - Uplift and Erosion'</i> , May 29–30 th 2017, Svolvær, Norway,
2016	Member of the conference programme committee, <i>'Onshore – Offshore relationships on the North Atlantic Margins'</i> , October 18–19 th 2016, Trondheim, Norway.
2016	Member of the organizing committee of an ARCEX workshop <i>'Cenozoic paleoenvironment and the total (net) erosion of the Barents Sea Shelf/Svalbard'</i> , October 26 th 2016, Tromsø, Norway.

17. Science popularization, project presentation and outreach (16)

I have given multiple popular scientific presentations in various forums. Below is a selection of some popular scientific talks that I have presented at publically available seminars, workshops and conferences, as well as at faculty seminars, annual consortium and project meetings. I am particularly proud of the presentation I gave at the 'Petroleum Conference 2019' arranged by the Research Council of Norway where I was an invited speaker and participant of a panel debate. The conference is a forum for decision makers and national-level politicians. I was also given the opportunity to present research highlights to the Oil and Energy Minister of Norway during his visit to UiT The Arctic University of Norway in January 2018.

- Grundvåg, S.-A.,** Braathen, A., Olaussen, S., Sand, G. and Rønneberg, R. (2013). Longyearbyen CO2 Lab: A pilot project in the Arctic. Popular scientific summary talk given to a group of governmental representatives visiting UNIS. Oral presentation.
- Grundvåg, S.-A.** and Olaussen, S. (2015) Arbeidspakke 2: Petroleumssystemer og letemodeller ('WP2: petroleum systems and play models'). Popularized summary of ARCEX WP 2 activity presented to the Norwegian Research Council during the annual Petroleum Center Contact Meeting. Lysaker, Oslo, Norway. November 26th, Lysaker, Oslo, Norway. Oral presentation.
- Grundvåg, S.-A.** and Olaussen, S. (2015) WP2: petroleum systems and play models. Popularized summary of ARCEX WP 2 activity presented at the ARCEX General Assembly. December 10th, Tromsø, Norway. Oral presentation.
- Grundvåg, S.-A.** and Olaussen, S. (2016) WP2: Petroleum systems and play concepts – An integrated view. Popularized summary of ARCEX WP 2 activity presented at the ARCEX annual meeting 2016. March 15-16th, Tromsø, Norway. Oral presentation.
- Grundvåg, S.-A.,** Jelby, M.E., Olaussen, S. and Śliwińska, K.K. (2016) Could the Rurikfjellet Formation hold the key for understanding clinoform plays along the western Barents Shelf margin? LoCrA sponsor meeting, October 31st–November 2nd, Stavanger, Norway. Oral presentation.
- Grundvåg, S.-A.** (2016) Feltarbeid i Arktis – koblingen mellom land og sokkel ('fieldwork in the Arctic – the onshore-offshore link'). Popularized summary of ARCEX WP Geology activity presented to the Norwegian Research Council and the Norwegian Oil and Energy Department during their UiT/ARCEX site visit. October 5th, Tromsø, Norway. Oral presentation.
- Grundvåg, S.-A.** (2017) The "skiology" of Svalbard – the link between topography, geology and back-country skiing. Popular scientific (public) lunch talk held at Faculty of Mathematics and Natural Sciences, UiT The Arctic University of Norway, Tromsø, January 26th 2017. Oral presentation (invited speaker).
- Grundvåg, S.-A.** (2017) Svalbards' skiologi – sammenhengen mellom landskap, geologi og skikjøring på Svalbard. Popular scientific talk given (on request from the head of department) to an upper elementary school class visiting the Department of Geosciences, UiT The Arctic University of Norway, Tromsø, May 5th 2017. Oral presentation (presentation in Norwegian).
- Grundvåg, S.-A.** (2017) Tour of the "facilities". Popularized summary of ARCEX WP Geology activity presented to the Norwegian Research Council during the midway evaluation of the ARCEX project. September 21st, Tromsø, Norway. Oral presentation.
- Grundvåg, S.-A.** and Hætta, E.I. (2018) ARCEX status update. Popularized summary of ARCEX activity in Svalbard presented to the Oil and Energy Minister during his visit to UiT. January 23rd, Tromsø, Norway. Oral presentation.

- Grundvåg, S.-A.** and Senger, K. (2018) WP1&2 Geology – overview and status. Popularized summary of ARCEX WP Geology activity presented at the ARCEX annual meeting 2018. October 9-11th, Longyearbyen, Svalbard, Norway. Oral presentation.
- Grundvåg, S.-A.** (2018) ARCEX's virksomhet og geologiske undersøkelser på Øst-Grønland 2014-2018 ('ARCEX activity and geological investigations in NE Greenland, 2014-2018'). Popularized summary of ARCEX fieldwork campaigns to NE Greenland presented to the Norwegian Research Council during the annual Petroleum Center Contact Meeting. November 28th, Lysaker, Oslo, Norway. Oral presentation.
- Grundvåg, S.-A.** (2019) Svalbards geologi - nøkkelen til bedre ressursutnyttelse i Barentshavet? Norwegian Research Council's Petroleum Conference 2019. June 5th, Oslo, Norway. Oral presentation (INVITED SPEAKER, presentation in Norwegian) and panel debate.
- Grundvåg, S.-A.** and Senger, K. (2019) Update and status for WP Geology. Popularized summary of ARCEX WP Geology activity presented at the ARCEX annual meeting 2019. October 22-24th, Sommarøya, Norway. Oral presentation.
- Grundvåg, S.-A.** (2019) On the trace of old Norway in the heart of the East Greenland rift system. Friday seminar at the Department of Geosciences, UiT The Arctic University of Norway. November 1st 2019, Tromsø, Norway. Oral presentation.
- Grundvåg, S.-A.** and Senger, K. (2020) Noen høydepunkter fra geologiens (under) verden ('Some highlights from the geological underworld'). Popularized summary of ARCEX WP Geology activity presented to the Norwegian Research Council during their virtual site visit to UiT/ARCEX. October 10th, online meeting. Oral presentation.
- Grundvåg, S.-A.** and Senger, K. (2020) Noen høydepunkter fra geologiens (under) verden ('Some highlights from the geological underworld'). Popularized summary of ARCEX WP Geology activity presented at the ARCEX General Assembly. November 26th, online meeting. Oral presentation.

18. Media appearances

Movie appearances and productions

- I appear in the online-available ARCEX movie. I also contributed with fieldwork-footage to the production. Link to the movie:

<https://www.youtube.com/watch?v=LB1SQ2ZOVQ>.

- I have contributed to the production of a freeski movie from Svalbard sponsored by the French sports brand Salomon. Link to the full movie:

https://www.youtube.com/watch?v=edIJ2_924tU.

Mentioning in popular-scientific online newspapers (www.geoforskning.no)

- <https://www.geoforskning.no/9-nyheter/2367-spektakulaer-geologi-i-nord>
- <https://www.geoforskning.no/nyheter/grunnforskning/2305-reisebrev-fra-norskehavet>
- <https://geo365.no/geoforskning/en-300-millioner-ar-lang-reise-langs-kysten/>
- <https://www.geoforskning.no/nyheter/grunnforskning/1855-fantastiske-blotninger-under-arktisk-sommer>

Mentioning in university news articles

- Article about one of field courses at UiT (in Norwegian):
https://uit.no/nyheter/artikkel?p_document_id=521082
- Article written by Prof. Atle Røtevatn (UiB) about of our field trip to NE Greenland in 2014:
<https://www.uib.no/geo/80303/feltrapport-fra-gr%C3%B8nland-bassenganalyse-p%C3%A5-h%C3%B8ygir>



*This Curriculum Vitae was compiled based
on best knowledge. Any eventual mistakes
are accidently and not on purpose!*

- Sten-Andreas -

