

PUBLICATION LIST

Number of peer-reviewed original articles: 44 (12 lead author)

Total citations: 1181

H-index: 20

i10-index: 34

Source: [Google Scholar Profile](#), accessed October 2022

1. Muchowski, J., Umlauf, L., Arneborg, L., Holtermann, P., Weidner, E., Humborg, C., & **Stranne, C.** (2022). Potential and Limitations of a Commercial Broadband Echosounder for Remote Observations of Turbulent Mixing. *Journal of Atmospheric and Oceanic Technology*, *1*(aop). <https://doi.org/10.1175/JTECH-D-21-0169.1>
2. **Stranne, C.**, O'Regan, M., Hong, W.-L., Brüchert, V., Ketzer, M., Thornton, B. F., & Jakobsson, M. (2022). Anaerobic oxidation has a minor effect on mitigating seafloor methane emissions from gas hydrate dissociation. *Communications Earth & Environment*, *3*(1), 1–10. <https://doi.org/10.1038/s43247-022-00490-x>
3. Åkesson, H., Morlighem, M., Nilsson, J., **Stranne, C.**, & Jakobsson, M. (2022). Petermann Ice Shelf may not recover after a future breakup. *Nature Communications*, *13*(1), 2519. <https://doi.org/10.1038/s41467-022-29529-5>.
4. **Stranne, C.**, Nilsson, J., Ulfsbo, A., O'Regan, M., Coxall, H. K., Meire, L., et al. (2021). The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming. *Communications Earth & Environment*, *2*(1), 1–8. <https://doi.org/10.1038/s43247-021-00140-8>
5. Bradshaw, C., M. Jakobsson, V. Brüchert, S. Bonaglia, C.-M. Mörth, J. Muchowski, **Stranne, C.** and M. Sköld, (2021). Physical Disturbance by Bottom Trawling Suspends Particulate Matter and Alters Biogeochemical Processes on and Near the Seafloor. *Front. Mar. Sci.*, **8**, 1127, <https://doi.org/10.3389/fmars.2021.68333>
6. Holmes, F. A., Kirchner, N., Prakash, A., **Stranne, C.**, Dijkstra, S., & Jakobsson, M. (2021). Calving at Ryder glacier, Northern Greenland. *Journal of Geophysical Research: Earth Surface*, *126*(4), e2020JF005872. <https://doi.org/10.1029/2020JF005872>
7. Snoeijs-Leijonmalm, P., Gjørseter, H., Ingvaldsen, R. B., Knutsen, T., Korneliussen, R., Ona, E., Skjoldal, H. R., **Stranne, C.**, et al. (2021). A deep scattering layer under the North Pole pack ice. *Progress in Oceanography*, *194*, 102560. <https://doi.org/10.1016/j.pocean.2021.102560>
8. O'Regan, M., Cronin, T., Reilly, B., Alstrup, A. K. O., Gemery, L., Golub, A., et al. (2021). The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. *The Cryosphere*, *15*(8), 4073–4097. <https://doi.org/10.5194/tc-15-4073-2021>
9. Weidner, E., **Stranne, C.**, Sundberg, J. H., Weber, T. C., Mayer, L., & Jakobsson, M. (2020). Tracking the spatiotemporal variability of the oxic–anoxic interface in the Baltic Sea with broadband acoustics. *ICES Journal of Marine Science*, *77*(7–8), 2814–2824. <https://doi.org/10.1093/icesjms/fsaa153>.
10. Shibley, N., Timmermans, M.-L., & **Stranne, C.** (2020). Analysis of acoustic observations of double-diffusive finestructure in the Arctic Ocean. *Geophysical Research Letters*, *47*(18), e2020GL089845. <https://doi.org/10.1029/2020GL089845>
11. Jakobsson, M., Mayer, L. A., Nilsson, J., **Stranne, C.**, Calder, B., O'Regan, M., et al. (2020). Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. *Communications Earth & Environment*, *1*(1), 1–10. <https://doi.org/10.1038/s43247-020-00043-0>

12. Sayedi, S. S., Abbott, B. W., Thornton, B. F., Frederick, J. M., Vonk, J. E., Overduin, P., et al. (2020). Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. *Environmental Research Letters*, 15(12), 124075. <https://doi.org/10.1088/1748-9326/abcc29>
13. Broman, E., Sun, X., **Stranne, C.**, Salgado, M. G., Bonaglia, S., Geibel, M., et al. (2020). Low Abundance of Methanotrophs in Sediments of Shallow Boreal Coastal Zones With High Water Methane Concentrations. *Frontiers in Microbiology*, 11. <https://doi.org/10.3389/fmicb.2020.01536>
14. Hogan, K. A., Jakobsson, M., Mayer, L., Reilly, B. T., Jennings, A. E., Stoner, J. S., et al. (2020). Glacial sedimentation, fluxes and erosion rates associated with ice retreat in Petermann Fjord and Nares Strait, north-west Greenland. *Cryosphere*, 14(1), 261–286.
15. Jakobsson, M., O'Regan, M., Mörth, C.-M., **Stranne, C.**, Weidner, E., Hansson, J., et al. (2020). Potential links between Baltic Sea submarine terraces and groundwater seeping. *Earth Surface Dynamics*, 8(1), 1–15. <https://doi.org/10.5194/esurf-8-1-2020>
16. **Stranne, C.**, O'Regan, M., Jakobsson, M., Brüchert, V., & Ketzer, M. (2019). Can anaerobic oxidation of methane prevent seafloor gas escape in a warming climate? *Solid Earth*, 10(5), 1541–1554. <https://doi.org/10.5194/se-10-1541-2019>.
17. Preto, P., **Stranne, C.**, Greenwood, S., Jakobsson, M., Näslund, J.-O., Sundberg, J., et al. (2019). Geothermal evidence for groundwater flow through Quaternary sediments overlying bedrock aquifers below Lake Vättern, Sweden. *GFF*, 141(2), 106–120. <https://doi.org/10.1080/11035897.2019.1621368>.
18. Humborg, C., Geibel, M. C., Sun, X., McCrackin, M., Mörth, C.-M., **Stranne, C.**, et al. (2019). High Emissions of Carbon Dioxide and Methane From the Coastal Baltic Sea at the End of a Summer Heat Wave. *Frontiers in Marine Science*, 6. <https://doi.org/10.3389/fmars.2019.00493>.
19. Jakobsson, M., **Stranne, C.**, O'Regan, M., Greenwood, S. L., Gustafsson, B., Humborg, C., & Weidner, E. (2019). Bathymetric properties of the Baltic Sea. *Ocean Science*, 15(4), 905–924. <https://doi.org/10.5194/os-15-905-2019>.
20. Sohn, R. A., Luttrell, K., Shroyer, E., **Stranne, C.**, Harris, R. N., & Favorito, J. E. (2019). Observations and Modeling of a Hydrothermal Plume in Yellowstone Lake. *Geophysical Research Letters*, 46(12), 6435–6442. <https://doi.org/10.1029/2019GL082523>.
21. Bloemsma, M., Croudace, I., Daly, J. S., Edwards, R. J., Francus, P., Galloway, J. M., et al. (2019). Practical guidelines and recent advances in the Itrax XRF core-scanning procedure. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2018.10.044>.
22. **Stranne, C.**, Mayer, L., Jakobsson, M., Weidner, E., Jerram, K., Weber, T. C., et al. (2018). Acoustic mapping of mixed layer depth. *Ocean Sci.*, 14(3), 503–514. <https://doi.org/10.5194/os-14-503-2018>.
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25. Swärd, H., O'Regan, M., Pearce, C., Semiletov, I., **Stranne, C.**, Tarras, H., & Jakobsson, M. (2018). Sedimentary proxies for Pacific water inflow through the Herald Canyon, western Arctic Ocean. *Arktos*, 4(1), 19. <https://doi.org/10.1007/s41063-018-0055->.
26. Björk, G., Jakobsson, M., Assmann, K., Andersson, L. G., Nilsson, J., **Stranne, C.**, & Mayer, L. (2018). Bathymetry and oceanic flow structure at two deep passages crossing the Lomonosov Ridge. *Ocean Science*, 14(1), 1
27. **Stranne, C.**, Mayer, L., Weber, T. C., Ruddick, B. R., Jakobsson, M., Jerram, K., ... Gårdfeldt, K. (2017a). Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean. *Scientific Reports*, 7(1), 15192. <https://doi.org/10.1038/s41598-017-15486-3>.
28. **Stranne, C.**, O'Regan, M., & Jakobsson, M. (2017b). Modeling fracture propagation and seafloor gas release during seafloor warming-induced hydrate dissociation. *Geophysical Research Letters*, 44(16), 2017GL074349. <https://doi.org/10.1002/2017GL074349>.
29. O'Regan, M., Backman, J., Barrientos, N., Cronin, T.M., Gemery, L., Kirchner, N., Mayer, L.A., Nilsson, J., Noormets, R., Pearce, C., Semiletov, I., **Stranne, C.**, Jakobsson, M. (2017). The De Long Trough: a newly discovered glacial trough on the East Siberian continental margin. *Clim Past* 13, 1269–1284.
30. Nilsson, J., Jakobsson, M., Borstad, C., Kirchner, N., Björk, G., Pierrehumbert, R. T., & **Stranne, C.** (2017). Ice-shelf damming in the glacial Arctic Ocean: dynamical regimes of a basin-covering kilometre-thick ice shelf. *The Cryosphere*, 11(4), 1745.
31. Miller, C.M., Dickens, G.R., Jakobsson, M., Johansson, C., Koshurnikov, A., O'Regan, M., Muschitiello, F., **Stranne, C.**, Mörrth, C.-M., 2017. Pore water geochemistry along continental slopes north of the East Siberian Sea: inference of low methane concentrations. *Biogeosciences* 14, 2929.
32. Anderson, L.G., Björk, G., Holby, O., Jutterström, S., Mörrth, C.M., O'Regan, M., Pearce, C., Semiletov, I., **Stranne, C.**, Stöven, T., others (2017). Shelf–Basin interaction along the East Siberian Sea. *Ocean Sci.* 13, 349.
33. Jakobsson, M., Pearce, C., Cronin, T.M., Backman, J., Anderson, L.G., Barrientos, N., Björk, G., Coxall, H., de Boer, A., Mayer, L.A., Mörrth, C.-M., Nilsson, J., Rattray, J.E., **Stranne, C.**, Semiletov, I., O'Regan, M. (2017). Post-glacial flooding of the Bering Land Bridge dated to 11 cal ka BP based on new geophysical and sediment records. *Clim Past* 13, 991–1005.
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