

Publications 2026-01-26

Publication Statistics (updated 2026-01-26)

Author of 243 Peer review international journal articles (40 first authored and 45 last authored as senior author) and book chapters (13 first authored) as listed in Scopus, including first or last senior author in *Science* (2020), *Nature* (2007), *Nature Comm.* (2022, 2018, 2016), *Nature Geoscience* (2008), *Nature Scientific Data* (2024, 2020), *Communications Earth & Environment* (2020), *GRL* (2012, 2008), *Geology* (2014, 2011, 2000), *Quaternary Science Reviews* (2x2014, 2012, 2x2010), *Climate of the Past* (2017).

In addition, co-authorship in *Nature* (2017, 2008, 4x2006, 2004, 2001), *Nature Comm.* (2022, 2016), *Nature Geoscience* (2012), *Nature Reviews, Earth & Environment* (2025), *Science Advances* (2020)

Google Scholar: H-index **73**, no of citations 25 294, total peer-reviewed publications not to possible extract

Scopus: H-Index **62**, no of citations 16 582, total peer-reviewed publications 244

Web of Science: H-Index **57***, no of citations 13 892, total peer-reviewed publications 252

(*three highly cited group-authored Nature papers are missing in Web of Science, which are included in Scopus, hence the difference in H-Index)

1. Perspectives and News and Views 1999-2020 (not included in main list)

1. **Jakobsson, M.**, 2020, Tracking the rapid pace of a retreating ice sheet: *Science*, v. 368, no. 6494, p. 939-940. Doi: 10.1126/science.abc3583
2. **Jakobsson, M.**, 2008. The last stampede of a glacial lake, *Nature Geoscience* (News & Views), v. 1, p. 152-153, doi: 10.1038/ngeo147.

Peer-review original articles 1999-2025

2025 (5)

1. Akhoudas, C.H., Ulfsbo, A., Thornton, B.F., Pohlman, J.W., Boze, L.-G., **Jakobsson, M.**, Stranne, C., 2025. Unraveling ocean pCO₂ dynamics in Northwest Greenland Fjords. *Scientific Reports* 15, 29341. <https://doi.org/10.1038/s41598-025-12720-1>
2. Holmes, F.A., Barnett, J., Åkesson, H., Morlighem, M., Nilsson, J., Kirchner, N., **Jakobsson, M.**, 2025. Sea level rise contribution from Ryder Glacier in northern Greenland varies by an order of magnitude by 2300 depending on future emissions, *The Cryosphere* 19. <https://doi.org/10.5194/tc-19-2695-2025>
3. Barnett, J., Holmes, F.A., Cuzzone, J., Åkesson, H., Morlighem, M., O'Regan, M., Nilsson, J., Kirchner, N., **Jakobsson, M.**, 2025. Simulating the Holocene evolution of Ryder Glacier, North Greenland. *The Cryosphere* 1-38. <https://doi.org/10.5194/egusphere-2025-653>
4. Gaina, C., Jakobsson, M., Straume, E.O., Timmermans, M.-L., Boggild, K., Bünz, S., Schindwein, V., Døssing, A., 2025. Arctic Ocean bathymetry and its connections to tectonics, oceanography and climate. *Nat Rev Earth Environ* 6, 211–227. <https://doi.org/10.1038/s43017-025-00647-0>
5. Singh, A., Ho, S.L., Chen, M.-T., Wang, P.-L., Jakobsson, M., Gyllencreutz, R., Löwemark, L., 2025. Spatial distribution of *n*-alkanes and GDGTs in the central Arctic Ocean during Marine Isotope Stages 1, 2 and 3. *Organic Geochemistry* 201, 104920. <https://doi.org/10.1016/j.orggeochem.2024.104920>

2024 (6)

6. **Jakobsson, M.**, Mohammad, R., Karlsson, M., Salas-Romero, S., Vacek, F., Heinze, F., Bringensparr, C., Castro, C.F., Johnson, P., Kinney, J., Cardigos, S., Bogonko, M., Accettella, D., Amblas, D., An, L., Bohan, A., Brandt, A., Bünz, S., Canals, M., Casamor, J.L., Coakley, B., Cornish, N., Danielson, S., Demarte, M., Di Franco, D., Dickson, M.-L., Dorschel, B., Dowdeswell, J.A., Dreutter, S., Fremand, A.C., Hall, J.K., Hally, B., Holland, D., Hong, J.K., Ivaldi, R., Knutz, P.C., Krawczyk, D.W., Kristofferson, Y., Lastras, G., Leck, C., Lucchi, R.G., Masetti, G., Morlighem, M., Muchowski, J., Nielsen, T., Noormets, R., Plaza-Faverola, A., Prescott, M.M., Purser, A., Rasmussen, T.L., Rebesco, M., Rignot, E., Rysgaard, S., Silyakova, A., Snoeijers-Leijonmalm, P., Sørensen, A., Straneo, F., Sutherland, D.A., Tate, A.J., Travaglini, P., Trenholm, N., van Wijk, E., Wallace, L., Willis, J.K., Wood, M., Zimmermann, M., Zinglarsen, K.B., Mayer, L., 2024. The

International Bathymetric Chart of the Arctic Ocean Version 5.0. *Sci Data* 11, 1420.

<https://doi.org/10.1038/s41597-024-04278-w>

7. Andrén, E., Vinogradova, O., Lönn, M., Belle, S., Dahl, M., Palm, V., Katrantsiotis, C., Nielsen, A.B., **Jakobsson, M.**, Rönnyby, J., Andrén, T., 2024. Modern land use changes drive shifts in nutrient cycling and diatom assemblages in the Baltic Sea coastal zone: A millennial perspective with a case study from Gamlebyviken, Swedish east coast. *Quaternary Science Reviews* 346, 109058. <https://doi.org/10.1016/j.quascirev.2024.109058>
8. Chen, N.-C., O'Regan, M., Hong, W.-L., Andrén, T., Rodellas, V., Roth, F., Mörth, C.-M., Regnéll, C., Marxen, H.S., ten Hietbrink, S., Huang, T.-H., Gyllencreautz, R., Stranne, C., Linderholm, A., Garcia-Orellana, J., Humborg, C., **Jakobsson, M.**, 2024. Investigation of submarine groundwater discharge into the Baltic Sea through varved glacial clays. *Continental Shelf Research* 282, 105337. <https://doi.org/10.1016/j.csr.2024.105337>
9. Heide-Jørgensen, M.P., Box, J.E., Hansen, R.G., **Jakobsson, M.**, 2024. (Research note) Evidence of a narwhal (*Monodon monoceros*) summer ground in Nares Strait. *Polar Research*, v. 43. Doi: 10.33265/polar.v43.9860
10. **Jakobsson, M.**, O'Regan, M., Sköld, M., Jonsson, P., Bradshaw, C., 2024. The influence of seabed geology on the nature and preservation of bottom trawl marks in the Bornholm Basin, Southern Baltic Sea. *Continental Shelf Research* 105297. <https://doi.org/10.1016/j.csr.2024.105297>
11. Tabri, K., Naar, H., Šults, A., Heinvee, M., Mäesalu, M., Matusiak, J., Jakobsson, M., Varushkin, S., Kaldoja, M., Roosipuu, T., 2024. Numerical assessment procedure for the bottom contact of MV Estonia. Presented at the Advances in the Collision and Grounding of Ships and Offshore Structures - Proceedings of the 9th International Conference on Collision and Grounding of Ships and Offshore Structures, ICCGS 2023, pp. 221–231. <https://doi.org/10.1201/9781003462170-28> (peer-review conference paper)

2023 (9)

12. Muchowski, J., **Jakobsson, M.**, Umlauf, L., Arneborg, L., Gustafsson, B., Holtermann, P., Humborg, C., and Stranne, C., 2023, Observations of strong turbulence and mixing impacting water exchange between two basins in the Baltic Sea: *Ocean Science*, v. 19, no. 6, p. 1809-1825. Doi: 10.5194/os-19-1809-2023
13. Razmjooei, M. J., Henderiks, J., Coxall, H. K., Baumann, K. H., Vermassen, F., **Jakobsson, M.**, Niessen, F., and O'Regan, M., 2023, Revision of the Quaternary calcareous nannofossil biochronology of Arctic Ocean sediments: *Quaternary Science Reviews*, v. 321. Doi: 10.1016/j.quascirev.2023.108382
14. Sicard, M., de Boer, A.M., Coxall, H.K., Koenigk, T., Karami, M.P., **Jakobsson, M.**, O'Regan, M., 2023. Similarities and Differences in Arctic Sea-Ice Loss During the Solar-Forced Last Interglacial Warming (127 Kyr BP) and CO₂-Forced Future Warming. *Geophysical Research Letters* 50, e2023GL104782. Doi: <https://doi.org/10.1029/2023GL104782>
15. Muchowski, J., Arneborg, L., Umlauf, L., Holtermann, P., Eisbrenner, E., Humborg, C., Jakobsson, M., Stranne, C., 2023. Diapycnal Mixing Induced by Rough Small-Scale Bathymetry. *Geophysical Research Letters* 50, e2023GL103514. Doi: <https://doi.org/10.1029/2023GL103514>
16. West, G., Kaufman, D.S., **Jakobsson, M.**, O'Regan, M., 2023. Amino acid racemization in *Neogloboquadrina pachyderma* and *Cibicides wuellerstorfi* from the Arctic Ocean and its implications for age models. *Geochronology* 5, 285-299. Doi: 10.5194/gchron-5-285-2023
17. Vermassen, F., O'Regan, M., de Boer, A., Schenk, F., Razmjooei, M., West, G., Cronin, T. M., **Jakobsson, M.**, and Coxall, H. K., 2023, A seasonally ice-free Arctic Ocean during the Last Interglacial: *Nature Geoscience*. Doi: 10.1038/s41561-023-01227-x
18. Nilsson, J., van Dongen, E., **Jakobsson, M.**, O'Regan, M., Stranne, C., 2023. Hydraulic suppression of basal glacier melt in sill fjords. *The Cryosphere* 17, 2455-2476. Doi: 10.5194/tc-17-2455-2023
19. Detlef, H., O'Regan, M., Stranne, C., Jensen, M.M., Glasius, M., Cronin, T.M., **Jakobsson, M.**, and Pearce, C., Seasonal sea-ice in the Arctic's last ice area during the Early Holocene. *Communications Earth & Environment*, v. 4, no. 86. Doi: 10.1038/s43247-023-00720-w
20. Nikiforov, S., Ananiev, R., **Jakobsson, M.**, Moroz, E., Sokolov, S., Sorokhtin, N., Dmitrevsky, N., Sukhikh, E., Chickiryov, I., Zarayskaya, Y., Razumovskiy, A., Semiletov, I., 2023. The Extent of Glaciation in the Pechora Sea, Eurasian Arctic, Based on Submarine Glacial Landforms. *Geosciences* v. 13, no. 53. Doi: 10.3390/geosciences13020053

2022 (12)

21. Möller, P., Björck, S., Dowling, T.P.F., Hammarlund, D., **Jakobsson, M.**, Ljung, K., Lund, M., Paradeisis-Stathis, S., 2022. Deglaciation history and subsequent lake dynamics in the Siljan region, south-central Sweden, based on new LiDAR evidence and sediment records. *Earth Surface Processes and Landforms*. Doi: 10.1002/esp.5471
22. Wild, B., Shakhova, N., Dudarev, O., Ruban, A., Kosmach, D., Tumskey, V., Tesi, T., Grimm, H., Nybom, I., Matsubara, F., Alexanderson, H., **Jakobsson, M.**, Mazurov, A., Semiletov, I., and Gustafsson, Ö., 2022.

- Organic matter composition and greenhouse gas production of thawing subsea permafrost in the Laptev Sea. *Nature Communications*, v. 13, no. 1, p. 5057. Doi: 10.1038/s41467-022-32696-0
23. Glueder, A., Mix, A.C., Milne, G.A., Reilly, B.T., Clark, J., **Jakobsson, M.**, Mayer, L., Fallon, S.J., Southon, J., Padman, J., Ross, A., Cronin, T., McKay, J.L., 2022. Calibrated relative sea levels constrain isostatic adjustment and ice history in northwest Greenland. *Quaternary Science Reviews* 293, 107700. Doi: 10.1016/j.quascirev.2022.107700
 24. 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, 163. Doi: 10.1038/s43247-022-00490-x
 25. Cronin et al. Holocene paleoceanography and glacial history of Lincoln Sea, Ryder Glacier, Northern Greenland, based on foraminifera and ostracodes, *Marine Micropaleontology*.
 26. Dorschel, B., Hehemann, L., Viquerat, S., Warnke, F., Dreutter, S., Tenberge, Y. S., Accettella, D., An, L., Barrios, F., Bazhenova, E., Black, J., Bohoyo, F., Davey, C., De Santis, L., Dotti, C. E., Fremand, A. C., Fretwell, P. T., Gales, J. A., Gao, J., Gasperini, L., Greenbaum, J. S., Jencks, J. H., Hogan, K., Hong, J. K., **Jakobsson, M.**, Jensen, L., Kool, J., Larin, S., Larter, R. D., Leitchenkov, G., Loubrieu, B., Mackay, K., Mayer, L., Millan, R., Morlighem, M., Navidad, F., Nitsche, F. O., Nogi, Y., Pertuisot, C., Post, A. L., Pritchard, H. D., Purser, A., Rebesco, M., Rignot, E., Roberts, J. L., Rovere, M., Ryzhov, I., Sauli, C., Schmitt, T., Silvano, A., Smith, J., Snaith, H., Tate, A. J., Tinto, K., Vandenbossche, P., Weatherall, P., Wintersteller, P., Yang, C., Zhang, T., and Arndt, J. E., 2022, The International Bathymetric Chart of the Southern Ocean Version 2. *Scientific Data* 9(1), 275. Doi: 10.1038/s41597-022-01366-7.
 27. Åkesson, H., Morlighem, M., Nilsson, J., Stranne, C., and **Jakobsson, M.**, 2022. Petermann ice shelf may not recover after a future breakup. *Nature Communications* 13, 2519. Doi: 10.1038/s41467-022-29529-5
 28. West, G., Nilsson, A., Geels, A., **Jakobsson, M.**, Moros, M., Muschitiello, F., Pearce, C., Snowball, I., O'Regan, M., 2022. Late Holocene Paleomagnetic Secular Variation in the Chukchi Sea, Arctic Ocean. *Geochemistry, Geophysics, Geosystems* 23, e2021GC010187. Doi: 10.1029/2021GC010187
 29. Jennings, A., Reilly, B., Andrews, J., Hogan, K., Walczak, M., **Jakobsson, M.**, Stoner, J., Mix, A., Nicholls, K.W., O'Regan, M., Prins, M.A., Troelstra, S.R., 2022. Modern and early holocene ice shelf sediment facies from Petermann Fjord and northern Nares Strait, northwest Greenland. *Quaternary Science Reviews* 283, 107460. Doi: 10.1016/j.quascirev.2022.107460
 30. **Jakobsson, M.**, Mayer, L.A., 2022. Polar Region Bathymetry: Critical Knowledge for the Prediction of Global Sea Level Rise. *Frontiers in Marine Science* 8. Doi: 10.3389/fmars.2021.788724
 31. Clement Kinney, J., Assmann, K.M., Maslowski, W., Björk, G., **Jakobsson, M.**, Jutterström, S., Lee, Y.J., Osinski, R., Semiletov, I., Ulfso, A., Wählström, I., Anderson, L.G., 2022. On the circulation, water mass distribution, and nutrient concentrations of the western Chukchi Sea. *Ocean Science* 18, 29-49. Doi: 10.5194/os-18-29-2022
 32. Chuvilin, E., Bukhanov, B., Yurchenko, A., Davletshina, D., Shakhova, N., Spivak, E., Rusakov, V., Dudarev, O., Khaustova, N., Tikhonova, A., Gustafsson, O., Tesi, T., Martens, J., **Jakobsson, M.**, Spasennykh, M., Semiletov, I., 2022. In-situ temperatures and thermal properties of the East Siberian Arctic shelf sediments: Key input for understanding the dynamics of subsea permafrost. *Marine and Petroleum Geology*, 105550. Doi: 10.1016/j.marpetgeo.2022.105550

2021 (8)

33. West, G., Alexanderson, H., **Jakobsson, M.**, O'Regan, M., 2021. Optically stimulated luminescence dating supports pre-Eemian age for glacial ice on the Lomonosov Ridge off the East Siberian continental shelf. *Quaternary Science Reviews* 267, 107082. Doi: 10.1016/j.quascirev.2021.107082
34. Detlef, H., Reilly, B., Jennings, A., Mørk Jensen, M., O'Regan, M., Glasius, M., Olsen, J., **Jakobsson, M.**, Pearce, C., 2021. Holocene sea-ice dynamics in Petermann Fjord in relation to ice tongue stability and Nares Strait ice arch formation. *The Cryosphere* 15, 4357-4380. Doi: 10.5194/tc-15-4357-2021
35. Bradshaw, C., **Jakobsson, M.**, Brüchert, V., Bonaglia, S., Mörth, C.-M., Muchowski, J., Stranne, C., Sköld, M., 2021. Physical Disturbance by Bottom Trawling Suspends Particulate Matter and Alters Biogeochemical Processes on and Near the Seafloor. *Frontiers in Marine Science*, v. 8, no. 1127. Doi: 10.3389/fmars.2021.6833318.
36. O'Regan, M., Cronin, T.M., Reilly, B., Alstrup, A.K.O., Gemery, L., Golub, A., Mayer, L.A., Morlighem, M., Moros, M., Munk, O.L., Nilsson, J., Pearce, C., Detlef, H., Stranne, C., Vermassen, F., West, G., **Jakobsson, M.**, 2021. The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. *The Cryosphere*, v. 15, p. 4073-4097. Doi: 10.5194/tc-15-4073-2021
37. Åkesson, H., Morlighem, M., O'Regan, M., and **Jakobsson, M.**, 2021. Future projections of Petermann Glacier under ocean warming depend strongly on friction law. *Journal of Geophysical Research: Earth Surface*, 126, e2020JF005921. Doi: 10.1029/2020JF005921

38. Snoeijs-Leijonmalm, P., Gjøsæter, H., Ingvaldsen, R.B., Knutsen, T., Korneliussen, R., Ona, E., Rune Skjoldal, H., Stranne, C., Mayer, L., **Jakobsson, M.**, Gårdfeldt, K., 2021. A deep scattering layer under the North Pole pack ice. *Progress in Oceanography*, 102560. Doi: 10.1016/j.pocean.2021.102560
39. Holmes, F.A., Kirchner, N., Prakash, A., Stranne, C., Dijkstra, S., **Jakobsson, M.**, 2021. Calving at Ryder glacier, Northern Greenland. *JGR: Earth Surface*. V. 126, p. e2020JF005872. Doi: 10.1029/2020JF005872
40. Stranne, C., Nilsson, J., Ulfsbo, A., O'Regan, M., Coxall, H.K., Meire, L., Muchowski, J., Mayer, L.A., Brüchert, V., Fredriksson, J., Thornton, B., Chawarski, J., West, G., Weidner, E., **Jakobsson, M.**, 2021. The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming. *Communications Earth & Environment* v. 2, no. 70. Doi: 10.1038/s43247-021-00140-8

2020 (13)

41. 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*, v. 77, no. 7-8, p. 2814-2824. Doi: 10.1093/icesjms/fsaa153
42. Sayedi, S. S., Abbott, B. W., Thornton, B. F., Frederick, J. M., Vonk, J. E., Overduin, P., Schädel, C., Schuur, E. a. G., Bourbonnais, A., Demidov, N., Gavrilov, A., He, S., Hugelius, G., **Jakobsson, M.**, Jones, M. C., Joung, D., Kraev, G., Macdonald, R. W., David McGuire, A., Mu, C., O'regan, M., Schreiner, K. M., Stranne, C., Pizhankova, E., Vasiliev, A., Westermann, S., Zarnetske, J. P., Zhang, T., Ghandehari, M., Baeumler, S., Brown, B. C. & Frei, R. J. 2020. Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment: *Environmental Research Letters*, 15, no. 12, 124075. Doi: 10.1088/1748-9326/abcc29
43. **Jakobsson, M.**, Mayer, L. A., Nilsson, J., Stranne, C., Calder, B., O'regan, M., Farrell, J. W., Cronin, T. M., Brüchert, V., Chawarski, J., Eriksson, B., Fredriksson, J., Gemery, L., Glueder, A., Holmes, F. A., Jerram, K., Kirchner, N., Mix, A., Muchowski, J., Prakash, A., Reilly, B., Thornton, B., Ulfsbo, A., Weidner, E., Åkesson, H., Handl, T., Ståhl, E., Boze, L.-G., Reed, S., West, G. and Padman, J. 2020. Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill: *Communications Earth & Environment*, v. 1, no. 1. Doi: 10.1038/s43247-020-00043-0
44. Martens, J., Wild, B., Muschitiello, F., **O'Regan, M.**, **Jakobsson, M.**, Semiletov, I., Dudarev, O.V., Gustafsson, Ö., 2020. Remobilization of dormant carbon from Siberian-Arctic permafrost during three past warming events: *Science Advances*, v. 6, no. 42, doi: 10.1126/sciadv.abb6546
45. Ware, C., Mayer, L., Johnson, P., **Jakobsson, M.** and Ferrini, V., 2020. A global geographic grid system for visualizing bathymetry: *Geoscientific Instrumentation Methods and Data Systems*, v. 9, no. 2, p. 375-384. Doi: 10.5194/gi-9-375-2020
46. Jennings, A., Andrews, J., Reilly, B., Walczak, M., **Jakobsson, M.**, Mix, A., Stoner, J., Nicholls, K.W. and Cheseby, M., 2020. Modern foraminiferal assemblages in northern Nares Strait, Petermann Fjord, and beneath Petermann ice tongue, NW Greenland: *Arctic, Antarctic, and Alpine Research*, v. 52, no. 1, p. 491-511. Doi: 10.1080/15230430.2020.1806986
47. **Jakobsson, M.**, Mayer, L. A., Bringensparr, C., Castro, C. F., Mohammad, R., Johnson, P., Ketter, T., Accettella, D., Amblas, D., An, L., Arndt, J. E., Canals, M., Casamor, J. L., Chauché, N., Coakley, B., Danielson, S., Demarte, M., Dickson, M.-L., Dorschel, B., Dowdeswell, J. A., Dreutter, S., Fremand, A. C., Gallant, D., Hall, J. K., Hehemann, L., Hodnesdal, H., Hong, J., Ivaldi, R., Kane, E., Klaucke, I., Krawczyk, D. W., Kristoffersen, Y., Kuipers, B. R., Millan, R., Masetti, G., Morlighem, M., Noormets, R., Prescott, M. M., Rebesco, M., Rignot, E., Semiletov, I., Tate, A. J., Travaglini, P., Velicogna, I., Weatherall, P., Weinrebe, W., Willis, J. K., Wood, M., Zarayskaya, Y., Zhang, T., Zimmermann, M., and Zinglensen, K. B., 2020, The International Bathymetric Chart of the Arctic Ocean Version 4.0: *Scientific Data*, v. 7, no. 1, p. 176. Doi: 10.1038/s41597-020-0520-9
48. O'Regan, M., Backman, J., Fornaciari, E., **Jakobsson, M.**, and West, G., 2020, Calcareous nannofossils anchor chronologies for Arctic Ocean sediments back to 500 ka: *Geology*, v. 48, no. 11, p. 1115-1119. Doi: 10.1130/g47479.1
49. Broman, E., Sun, X., Stranne, C., Salgado, M.G., Bonaglia, S., Geibel, M.C., **Jakobsson, M.**, Norkko, A., Humborg, C., Nascimento, F.J., Low abundance of methanotrophs in sediments of shallow boreal coastal zones with high water methane concentrations: *Frontiers in Microbiology*, v. 11, no. 1536. Doi: 10.3389/fmicb.2020.01536.
50. Pérez, L. F., **Jakobsson, M.**, Funck, T., Andresen, K. J., Nielsen, T., O'Regan, M., and Mørk, F., 2020, Late Quaternary sedimentary processes in the central Arctic Ocean inferred from geophysical mapping: *Geomorphology*, v. 369, p. 107309 (1-15). Doi: 10.1016/j.geomorph.2020.107309.
51. Muschitiello, F., O'Regan, M., Martens, J., West, G., Gustafsson, Ö., and **Jakobsson, M.**, 2020, A new 30,000-year chronology for rapidly deposited sediments on the Lomonosov Ridge using bulk radiocarbon dating and probabilistic stratigraphic alignment: *Geochronology*, v. 2, no. 1, p. 81-91. Doi: 10.5194/gchron-2-81-2020
52. **Jakobsson, M.**, O'Regan, M., Mörth, C.-M., Stranne, C., Weidner, E., Hansson, J., Gyllencreutz, R., Humborg, C., Elfving, T., Norkko, A., Norkko, J., Nilsson, B., and Sjöström, A., 2020, Potential links

between Baltic Sea submarine terraces and groundwater seeping: *Earth Surface Dynamics*, v. 8, p. 1-15. Doi: 10.5194/esurf-8-1-2020

53. Hogan, K. A., **Jakobsson, M.**, Mayer, L., Reilly, B., Jennings, A., Mix, A., Nielsen, T., Andresen, K. J., Nørmark, E., Heirmann, K. A., Kamla, E., Jerram, K., and Stranne, C., 2020. Glacial sedimentation, fluxes and erosion rates associated with ice retreat in Petermann Fjord and Nares Strait, NW Greenland: *The Cryosphere*, v. 2020, v. 14, p. 261-286. Doi: 10.5194/tc-14-261-2020

2019 (12)

54. Cronin, T. M., Keller, K. J., Farmer, J. R., Schaller, M. F., O'Regan, M., Poirier, R., Coxall, H., Dwyer, G. S., Bauch, H., Kindstedt, I., **Jakobsson, M.**, Marzen, R., and Santin, E., 2019. Interglacial Paleoclimate in the Arctic: *Paleoceanography and Paleoclimatology*, v. 34, no. 12, 1959-1979. Doi: <https://doi.org/10.1029/2019PA003708>
55. Preto, P., Stranne, C., Greenwood, S., **Jakobsson, M.**, Näslund, J.-O., Sundberg, J., Swärd, H., and O'Regan, M., 2019, Geothermal evidence for groundwater flow through Quaternary sediments overlying bedrock aquifers below Lake Vättern, Sweden: *GFF*, v. 141, no. 2, p. 106-120. Doi:10.1080/11035897.2019.1621368
56. An, L., Rignot, E., Chauche, N., Holland, D., Holland, D., **Jakobsson, M.**, Kane, E., Wood, M., Klauke, I., Morlighem, M., Velicogna, I., Weinrebe, W., and Willis, J. K., 2019, Bathymetry of Southeast Greenland from Ocean Melting Greenland (OMG) data: *Geophysical Research Letters*, v. 46, no. 20, p. 11197-11205 Doi: 10.1029/2019GL083953
57. Stranne, C., O'Regan, M., **Jakobsson, M.**, Brüchert, V., and Ketzer, M., 2019. Can anaerobic oxidation of methane prevent seafloor gas escape in a warming climate?: *Solid Earth*, v. 10, no. 5, p. 1541-1554. Doi: 10.5194/se-10-1541-2019
58. Humborg, C., Geibel, M. C., Sun, X., McCrackin, M., Mörth, C.-M., Stranne, C., **Jakobsson, M.**, Gustafsson, B., Sokolov, A., Norkko, A., and Norkko, J., 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*, v. 6, no. 493. Doi: 10.3389/fmars.2019.00493
59. Reilly, B. T., Stoner, J. S., Mix, A. C., Walczak, M. H., Jennings, A., **Jakobsson, M.**, Dyke, L., Glueder, A., Nicholls, K., Hogan, K. A., Mayer, L. A., Hatfield, R. G., Albert, S., Marcott, S., Fallon, S., and Cheseby, M., 2019. Holocene break-up and reestablishment of the Petermann Ice Tongue, Northwest Greenland: *Quaternary Science Reviews*, v. 218, p. 322-342. Doi: 10.1016/j.quascirev.2019.06.023.
60. **Jakobsson, M.**, Stranne, C., O'Regan, M., Greenwood, S. L., Gustafsson, B., Humborg, C., and Weidner, E., 2019. Bathymetric properties of the Baltic Sea: *Ocean Science*, v. 15, p. 905-924. Doi: 10.5194/os-15-905-2019.
61. Wöfl, A.-C., Snaith, H., Amirebrahimi, S., Devey, C. W., Dorschel, B., Ferrini, V., Huvenne, V. A. I., **Jakobsson, M.**, Jencks, J., Johnston, G., Lamarche, G., Mayer, L., Millar, D., Pedersen, T. H., Picard, K., Reitz, A., Schmitt, T., Visbeck, M., Weatherall, P., and Wigley, R., 2019. Seafloor Mapping – The Challenge of a Truly Global Ocean Bathymetry: *Frontiers in Marine Science*, v. 6, no. 283. Doi: 10.3389/fmars.2019.00283.
62. O'Regan, M., Coxall, H., Cronin, T., Gyllencreutz, R., **Jakobsson, M.**, Kaboth, S., Löwemark, L., Wiers, S., and West, G. 2019. Stratigraphic Occurrences of Sub-Polar Planktonic Foraminifera in Pleistocene Sediments on the Lomonosov Ridge, Arctic Ocean, *Frontiers in Earth Science*, v. 7, no. 71, 2019. Doi:10.3389/feart.2019.00071
63. Martens, J., Wild, B., Pearce, C., Tesi, T., Andersson, A., Bröder, L., O'Regan, M., **Jakobsson, M.**, Sköld, M., Gemery, L., Cronin, T. M., Semiletov, I., Dudarev, O. V., and Gustafsson, Ö., 2019. Remobilization of Old Permafrost Carbon to Chukchi Sea Sediments During the End of the Last Deglaciation: *Global Biogeochemical Cycles*, v. 33, no. 1, p. 2-14. doi:10.1029/2018GB005969
64. Weidner, E., Weber, T. C., Mayer, L., **Jakobsson, M.**, Chernykh, D., and Semiletov, I., 2019. A wideband acoustic method for direct assessment of bubble-mediated methane flux: *Continental Shelf Research*, v. 173, p. 104-115. Doi: 10.1016/j.csr.2018.12.005
65. Kaboth-Bahr, S., V. Denis, C.-C. Su, M. O'Regan, R. Gyllencreutz, **M. Jakobsson**, and L. Löwemark, 2019. Deciphering ~45.000 years of Arctic Ocean lithostratigraphic variability through multivariate statistical analysis: *Quaternary International*, v. 514, p. 141-151. Doi: 10.1016/j.quaint.2018.11.043.

2018 (12)

66. Kirchner, N., van Dongen, E., Gowan, E.J., Pattyn, F., Noormets, R., **Jakobsson, M.**, and Ingólfsson, 2018. Ó, GRANTSISM: An Excel™ ice sheet model for use in introductory Earth science courses: *Journal of Geoscience Education*, v. 66, no. 2, p. 109-120. Doi: 10.1080/10899995.2018.1412177
67. Swärd, H., O'Regan, M., Pearce, C., Stranne, C., Tarras, H., **Jakobsson, M.**, 2018. Sedimentary proxies for Pacific water inflow in a sediment core from the Herald Canyon, western Arctic Ocean: *Arktos*, v. 4, no. 1, p. 19. doi: 10.1007/s41063-018-0055-x.

68. Seidenstein, J. L., Cronin, T. M., Gemery, L., Keigwin, L. D., Pearce, C., **Jakobsson, M.**, Coxall, H. K., Wei, E. A., and Driscoll, N. W., 2018, Late Holocene paleoceanography in the Chukchi and Beaufort Seas, Arctic Ocean, based on benthic foraminifera and ostracodes: *arktos*, v. 4, no. 1, p. 23.
69. Lomac-Macnair, K., **Jakobsson, M.**, Mix, A., Freire, F., Hogan, K., Mayer, L., Smultea, M.A., 2018. Seal occurrence and habitat use during summer in Petermann Fjord, northwestern Greenland. *Arctic* 71, 334-349. Doi:10.14430/arctic4735
70. Fransner, O., Noormets, R., Chauhan, T., O'Regan, M., and **Jakobsson, M.**, 2018, Late Weichselian ice stream configuration and dynamics in Albertini Trough, northern Svalbard margin: *arktos*, v. 4, no. 1, p. 1.
71. Barrientos, N., Lear, C. H., **Jakobsson, M.**, Stranne, C., O'Regan, M., Cronin, T. M., Gukov, A. Y., and Coxall, H. K., 2018, Arctic Ocean benthic foraminifera Mg/Ca ratios and global Mg/Ca-temperature calibrations: New constraints at low temperatures: *Geochimica et Cosmochimica Acta*, v. 236, p. 240-259. Doi: 10.1016/j.gca.2018.02.036
72. **Jakobsson, M.**, Hogan, K. A., Mayer, L. A., Mix, A., Jennings, A., Stoner, J., Eriksson, B., Jerram, K., Mohammad, R., Pearce, C., Reilly, B., and Stranne, C., 2018, The Holocene retreat dynamics and stability of Petermann Glacier in northwest Greenland: *Nature Communications*, v. 9, no. 1, p. 2104. Doi: 10.1038/s41467-018-04573-2
73. Stranne, C., Mayer, L., **Jakobsson, M.**, Weidner, E., Jerram, K., Weber, T. C., Anderson, L. G., Nilsson, J., Björk, G., and Gårdfeldt, K., 2018, Acoustic mapping of mixed layer depth: *Ocean Sci.*, v. 14, no. 3, p. 503-514. Doi: <https://doi.org/10.5194/os-14-503-2018>
74. Björk, G., **Jakobsson, M.**, Assmann, K., Andersson, L. G., Nilsson, J., Stranne, C., and Mayer, L., 2018, Bathymetry and oceanic flow structure at two deep passages crossing the Lomonosov Ridge: *Ocean Sci.*, v. 14, no. 1, p. 1-13. Doi: 10.5194/os-14-1-2018
75. Shephard, G. E., S. Wiers, E. Bazhenova, L. F. Pérez, L. M. Mejía, C. Johansson, **M. Jakobsson**, and M. O'Regan (2018), A North Pole thermal anomaly? Evidence from new and existing heat flow measurements from the central Arctic Ocean, *Journal of Geodynamics*, doi:<https://doi.org/10.1016/j.jog.2018.01.017>.
76. Swärd, H., O'Regan, M., Björck, S., Greenwood, S. L., Kylander, M. E., Mörth, C. M., Pearce, C., and **Jakobsson, M.**, 2018, A chronology of environmental changes in the Lake Vättern basin from deglaciation to its final isolation: *Boreas*, v. 47, no. 2, p. 609-624. doi:10.1111/bor.12288
77. Mayer, L., **Jakobsson, M.**, Allen, G., Dorschel, B., Falconer, R., Ferrini, V., Lamarche, G., Snaith, H., and Weatherall, P., 2018, The Nippon Foundation—GEMCO Seabed 2030 Project: The Quest to See the World's Oceans Completely Mapped by 2030: *Geosciences*, v. 8, no. 2, p. 63. Doi: doi:10.3390/geosciences8020063

2017 (16)

78. Stranne, C., Mayer, L., Weber, T. C., Ruddick, B. R., **Jakobsson, M.**, Jerram, K., Weidner, E., Nilsson, J., and Gårdfeldt, K., 2017, Acoustic Mapping of Thermohaline Staircases in the Arctic Ocean: *Scientific Reports*, v. 7, no. 1, p. 15192.
79. Stranne, C., O'Regan, M., and **Jakobsson, M.**, 2017, Modeling fracture propagation and seafloor gas release during seafloor warming-induced hydrate dissociation: *Geophysical Research Letters*, v. 44, no. 16, p. 8510-8519. Doi: 10.1002/2017GL074349
80. Wise, M. G., Dowdeswell, J. A., **Jakobsson, M.**, and Larter, R. D., 2017, Evidence of marine ice-cliff instability in Pine Island Bay from iceberg-keel plough marks: *Nature*, v. 550, no. 7677, p. 506-510. Doi: 10.1038/nature24458
81. Gemery, L., Cronin, T. M., Poirier, R. K., Pearce, C., Barrientos, N., O'Regan, M., Johansson, C., Koshurnikov, A., and **Jakobsson, M.**, 2017, Central Arctic Ocean paleoceanography from ~50 ka to present, on the basis of ostracode faunal assemblages from SWERUS 2014 expedition: *Climate of the Past*, no. 13, p. 1473-1489. Doi: cp-13-1473-2017
82. **Jakobsson, M.**, Pearce, C., Cronin, T. M., Backman, J., Anderson, L. G., Barrientos, N., Björk, G., Coxall, H., de Boer, A., Mayer, L. A., Mörth, C. M., Nilsson, J., Rattray, J. E., Stranne, C., Semiletov, I., and O'Regan, M., 2017, Post-glacial flooding of the Beringia Land Bridge dated to 11,000 cal yrs BP based on new geophysical and sediment records: *Climate of the Past*, no. 13, p. 1-22. Doi: 10.5194/cp-2017-11
83. Morlighem, M., Williams, C. N., Rignot, E., An, L., Arndt, J. E., Bamber, J. L., Catania, G., Chauché, N., Dowdeswell, J. A., Dorschel, B., Fenty, I., Hogan, K., Howat, I., Hubbard, A., **Jakobsson, M.**, Jordan, T. M., Kjeldsen, K. K., Millan, R., Mayer, L., Mouginot, J., Noël, B. P. Y., O'Cofaigh, C., Palmer, S., Rysgaard, S., Seroussi, H., Siegert, M. J., Slabon, P., Straneo, F., van den Broeke, M. R., Weinrebe, W., Wood, M., and Zinglarsen, K. B., 2017, BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation: *Geophysical Research Letters*, v. 44, no. 21, p. 11,051-011,061.
84. 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., and **Jakobsson, M.**, 2017, The De Long Trough: a newly discovered glacial trough on the East Siberian continental margin: *Climate of the Past*, v. 13, no. 9, p. 1269-1284. Doi: 10.5194/cp-13-1269-2017

85. Cronin, T. M., O'Regan, M., Pearce, C., Gemery, L., Toomey, M., Semiletov, I., and **Jakobsson, M.**, 2017, Deglacial sea level history of the East Siberian Sea and Chukchi Sea margins: *Climate of the Past*, v. 13, no. 9, p. 1097-1110. Doi: <https://doi.org/10.5194/cp-13-1097-2017>
86. Nilsson, J., **Jakobsson, M.**, Borstad, C., Kirchner, N., Björk, G., Pierrehumbert, R. T., and Stranne, C., 2017, Ice-shelf damming in the glacial Arctic Ocean: dynamical regimes of a basin-covering kilometre thick ice shelf: *The Cryosphere*, v. 11, no. 4, p. 1745-1765. Doi: [10.5194/tc-11-1745-2017](https://doi.org/10.5194/tc-11-1745-2017)
87. Anderson, L. G., Björk, G., Holby, O., Jutterström, S., Mörth, C. M., O'Regan, M., Pearce, C., Semiletov, I., Stranne, C., Stöven, T., Tanhua, T., Ulfso, A., and **Jakobsson, M.**, 2017, Shelf–Basin interaction along the East Siberian Sea: *Ocean Science*, v. 13, no. 2, p. 349-363.
88. Miller, C. M., Dickens, G. R., **Jakobsson, M.**, Johansson, C., Koshurnikov, A., O'Regan, M., Muschitiello, F., Stranne, C., and Mörth, C. M., 2017, Pore water geochemistry along continental slopes north of the East Siberian Sea: inference of low methane concentrations: *Biogeosciences*, v. 14, no. 12, p. 2929-2953. Doi: <https://doi.org/10.5194/bg-14-2929-2017>
89. Minzoni, R. T., Majewski, W., Anderson, J. B., Yokoyama, Y., Fernandez, R., and **Jakobsson, M.**, Oceanographic influences on the stability of the Cosgrove Ice Shelf, Antarctica: *The Holocene*, v. 27, no. 11, p. 1645-1658. Doi: [10.1177/0959683617702226](https://doi.org/10.1177/0959683617702226)
90. Pearce, C., Varhelyi, A., Wastegård, S., Muschitiello, F., Barrientos, N., O'Regan, M., Cronin, T. M., Gemery, L., Semiletov, I., Backman, J., and **Jakobsson, M.**, 2017, The 3.6 ka Aniakchak tephra in the Arctic Ocean: a constraint on the Holocene radiocarbon reservoir age in the Chukchi Sea: *Climate of the Past*, v. 13, no. 4, p. 303-316. Doi: [10.5194/cp-13-303-2017](https://doi.org/10.5194/cp-13-303-2017)
91. Gleason, J. D., Blum, J. D., Moore, T. C., Polyak, L., **Jakobsson, M.**, Meyers, P. A., and Biswas, A., 2017, Sources and cycling of mercury in the paleo Arctic Ocean from Hg stable isotope variations in Eocene and Quaternary sediments: *Geochimica et Cosmochimica Acta*, v. 197, p. 245-262. Doi: [10.1016/j.gca.2016.10.033](https://doi.org/10.1016/j.gca.2016.10.033)
92. Chiu, P. Y., Chao, W. S., Gyllencreutz, R., **Jakobsson, M.**, Li, H. C., Löwemark, L., and O'Regan, M., 2017, New constraints on Arctic Ocean Mn stratigraphy from radiocarbon dating on planktonic foraminifera: *Quaternary International*, vo. 447, p. 13-26. Doi: <https://doi.org/10.1016/j.quaint.2016.11.030>
93. Flink, A. E., Noormets, R., Fransner, O., Hogan, K. A., O'Regan, M., and **Jakobsson, M.**, 2017, Past ice flow in Wahlenbergfjorden and its implications for late Quaternary ice sheet dynamics in northeastern Svalbard: *Quaternary Science Reviews*, v. 163, p. 162-179.
94. Fransner, O., Noormets, R., Flink, A. E., Hogan, K. A., O'Regan, M., and **Jakobsson, M.**, 2017, Glacial landforms and their implications for glacier dynamics in Rjipfjorden and Duvefjorden, northern Nordaustlandet, Svalbard: *Journal of Quaternary Science*, v. 32, no. 3, p. 437-455. Doi: [10.1002/jqs.2938](https://doi.org/10.1002/jqs.2938)

2016 (10)

95. Ian, F., Willis, J. K., Khazendar, A., Dinardo, S., Forsberg, R., Fukumori, I., Holland, D., **Jakobsson, M.**, Moller, D., Morison, J., Münchow, A., Rignot, E., Schodlok, M., Thompson, A. F., Tinto, K., Rutherford, M. and Trenholm, N., 2016. Oceans Melting Greenland: Early Results from NASA's Ocean-Ice Mission in Greenland. *Oceanography*: v. 29, no. 4, p. 71–83. <https://doi.org/10.5670/oceanog.2016.100>
96. Greenwood, S. L., Clason, C. C., Nyberg, J., **Jakobsson, M.**, and Holmlund, P., 2016, The Bothnian Sea ice stream: early Holocene retreat dynamics of the south-central Fennoscandian Ice Sheet: *Boreas*, Doi: [10.1111/bor.12217](https://doi.org/10.1111/bor.12217)
97. Tesi, T., Muschitiello, F., Smittenberg, R. H., **Jakobsson, M.**, Vonk, J. E., Hill, P., Andersson, A., Kirchner, N., Noormets, R., Dudarev, O., Semiletov, I., and Gustafsson, Ö., 2016, Massive remobilization of permafrost carbon during post-glacial warming: *Nature Communication*, v. 7. Doi: [10.1038/ncomms13653](https://doi.org/10.1038/ncomms13653)
98. Stranne, C., O'Regan, M., and **Jakobsson, M.**, 2016, Overestimating climate warming-induced methane gas escape from the seafloor by neglecting multiphase flow dynamics: *Geophysical Research Letters*, v. 43, no. 16, p. 8703-8712. Doi: [10.1002/2016GL070049](https://doi.org/10.1002/2016GL070049)
99. **Jakobsson, M.**, Nilsson, J., Anderson, L., Backman, J., Björk, G., Cronin, T. M., Kirchner, N., Koshurnikov, A., Mayer, L., Noormets, R., O'Regan, M., Stranne, C., Ananiev, R., Barrientos Macho, N., Cherniykh, D., Coxall, H., Eriksson, B., Floden, T., Gemery, L., Gustafsson, O., Jerram, K., Johansson, C., Khortov, A., Mohammad, R., and Semiletov, I., 2016, Evidence for an ice shelf covering the central Arctic Ocean during the penultimate glaciation: *Nature Communication*, v. 7, p. 1-10. doi:[10.1038/ncomms10365](https://doi.org/10.1038/ncomms10365) (*Article feature in Nature News & Views: Domack, E., 2016, Climate science: A great Arctic ice shelf: Nature*, v. 530, no. 7589, p. 163-164. [10.1038/nature16878](https://doi.org/10.1038/nature16878))
100. Stranne, C., O'Regan, M., Dickens, G. R., Crill, P., Miller, C., Preto, P., and **Jakobsson, M.**, 2016. Dynamic simulations of potential methane release from East Siberian continental slope sediments: *Geochemistry, Geophysics, Geosystems*, v. 17, no. 3, p. 872-886. Doi: [10.1002/2015GC006119](https://doi.org/10.1002/2015GC006119)
101. Löwemark, L., Chao, W.-S., Gyllencreutz, R., Hanebuth, T. J. J., Chiu, P.-Y., Yang, T.-N., Su, C.-C., Chuang, C.-K., León Dominguez, D. C., and **Jakobsson, M.**, 2016, Variations in glacial and interglacial marine conditions over the last two glacial cycles off northern Greenland: *Quaternary Science Reviews*, v. 147, p. 164-177.

102. Skelton, A., Sturkell, E., **Jakobsson, M.**, Einarsson, D., Tollefsen, E., and Orr, T., 2016, Dimmuborgir: a rootless shield complex in northern Iceland: *Bulletin of Volcanology*, v. 78, no. 5, p. 40. doi:10.1007/s00445-016-1032-5
103. Andersson, T., Hermelin, O., Skelton, A., and **Jakobsson, M.**, 2016, Bottom characterization of Lagoa das Furnas on São Miguel, Azores archipelago: *Journal of Volcanology and Geothermal Research*, v. 321, p. 196-207. Doi: <http://dx.doi.org/10.1016/j.jvolgeores.2016.02.031>
104. O'Regan, M., Preto, P., Stranne, C., **Jakobsson, M.**, and Koshurnikov, A., 2016, Surface heat flow measurements from the East Siberian continental slope and southern Lomonosov Ridge, Arctic Ocean: *Geochemistry, Geophysics, Geosystems*, v. 17, no. 5, p. 1608-1622. Doi: 10.1002/2016GC006284
- 2015 (11)**
105. **Jakobsson, M.**, Mayer, L., Monahan, D., 2015. Arctic Ocean Bathymetry: A Necessary Geospatial Framework. *Arctic*. V. 68, p. 1-7. doi: <http://dx.doi.org/10.14430/arctic4451>
106. Chi Fru, E., Arvestål, E., Callac, N., El Albani, A., Kiliyas, S., Argyraki, A., and **Jakobsson, M.**, 2015. Arsenic stress after the Proterozoic glaciations: *Scientific Reports*, v. 5, p. 17789. doi: 10.1038/srep17789
107. Danielson, S. L., Dobbins, E. L., **Jakobsson, M.**, Johnson, M. A., Weingartner, T. J., Williams, W. J., and Zarayskaya Y., 2015. Sounding the northern seas, *EOS*, v. 96, doi:10.1029/2015EO040975
108. Freire, F., Gyllencreutz, R., Greenwood, S.L., Mayer, L., Egilsson, A., Thorsteinsson, T. and **Jakobsson, M.**, 2015. High resolution mapping of offshore and onshore glaciogenic features in metamorphic bedrock terrain, Melville Bay, northwestern Greenland. *Geomorphology*. v. 250, p. 29–40. doi:10.1016/j.geomorph.2015.08.011
109. Greenwood, S.L., O'Regan, Swärd, H., Flodén, T., Ananyev, R., Chernykh, D., and **Jakobsson, M.**, Multiple readvances of a Lake Vättern outlet glacier during Fennoscandian Ice Sheet retreat, south-central Sweden, *Boreas*, v. 44, no 4. 619-637. doi: 10.1111/bor.12132
110. Lobkovsky, L. I., Nikiforov, S. L., Ananiev, R. A., Khortov, A. V., Semiletov, I. P., **Jakobsson, M.**, and Dmitrievskiy, N. N., 2015. Recent geological–geomorphological processes on the east Arctic shelf: Results of the expedition of the icebreaker Oden in 2014: *Oceanology*, v. 55, no. 6, p. 926-929. doi: 10.1134/S0001437015060107
111. O'Regan, M., Forwick, M., **Jakobsson, M.**, Moran, K., and Mosher, D., 2015. Seafloor cratering and sediment remolding at sites of fluid escape: *Geology*, v. 43, no. 10, p. 895-898. doi: 10.1130/g36945.1
112. O'Regan, M., Greenwood, S.L., Preto, P., Swärd, H., **Jakobsson, M.**, 2015. Geotechnical and sedimentary evidence for thick-grounded ice in southern Lake Vättern during deglaciation. *GFF*, 1-12. doi: 10.1080/11035897.2015.1055511
113. Stokes, C.R., Tarasov, L., Blomdin, R., Cronin, T.M., Fisher, T.G., Gyllencreutz, R., Hättestrand, C., Heyman, J., Hindmarsh, R.C.A., Hughes, A.L.C., **Jakobsson, M.**, Kirchner, N., Livingstone, S.J., Margold, M., Murton, J.B., Noormets, R., Peltier, W.R., Petzet, D.M., Piper, D.J.W., Preusser, F., Renssen, H., Roberts, D.H., Roche, D.M., Saint-Ange, F., Stroeven, A.P. and Teller, J.T., 2015. On the reconstruction of palaeo-ice sheets: Recent advances and future challenges. *Quaternary Science Reviews*. v. 125, p. 15–49. doi: 10.1016/j.quascirev.2015.07.016
114. Swärd, H., O'Regan, M., Ampel, L., Ananyev, R., Chernykh, D., Floden, T., Greenwood, S.L., Kylander, M.E., Mörth, C.M., Preto, P., **Jakobsson, M.**, 2015. Regional deglaciation and postglacial lake development as reflected in a 74 m sedimentary record from Lake Vättern, southern Sweden. *GFF*, 1-19. doi: 10.1080/11035897.2015.1055510
115. Weatherall, P., Marks, K.M., **Jakobsson, M.**, Schmitt, T., Tani, S., Arndt, J.-E., Rovere, M., Chayes, D., Ferrini, V., Wigley, R., 2015. A New Digital Bathymetric Model of the World's Oceans. *Earth and Space Science*. v. 8, no 8, p. 331-345. doi: 10.1002/2015EA000107
- 2014 (14)**
116. **Jakobsson, M.**, Björck, S., O'Regan, M., Flodén, T., Greenwood, S.L., Swärd, H., Lif, A., Ampel, L., Koyi, H., Skelton, A., 2014. Major earthquake at the Pleistocene-Holocene transition in Lake Vättern, southern Sweden. *Geology*. v. 42, no. 5. P. 379-382. doi: 10.1130/g35499.1
117. **Jakobsson, M.**, Ingólfsson, Ó., Long, A.J., Spielhagen, R.F., 2014. The dynamic Arctic. *Quaternary Science Reviews*, v. 92, p. 1-8. doi: <http://dx.doi.org/10.1016/j.quascirev.2014.03.022>
118. **Jakobsson, M.**, Andreassen, K., Bjarnadóttir, L. R., Dove, D., Dowdeswell, J. A., England, J. H., Funder, S., Hogan, K., Ingólfsson, Ó., Jennings, A., Krog Larsen, N., Kirchner, N., Landvik, J. Y., Mayer, L., Mikkelsen, N., Möller, P., Niessen, F., Nilsson, J., O'Regan, M., Polyak, L., Nørgaard-Pedersen, N., and Stein, R., 2014. Arctic Ocean glacial history. *Quaternary Science Reviews*, v. 92, p. 40-67. Doi: <http://dx.doi.org/10.1016/j.quascirev.2013.07.033>
119. Larter, R. D., Anderson, J. B., Graham, A. G. C., Gohl, K., Hillenbrand, C.-D., **Jakobsson, M.**, Johnson, J. S., Kuhn, G., Nitsche, F. O., Smith, J. A., Witus, A. E., Bentley, M. J., Dowdeswell, J. A., Ehrmann, W., Klages, J. P., Lindow, J., Cofaigh, C. Ó., and Spiegel, C., 2014. Reconstruction of changes in the Amundsen Sea and Bellingshausen Sea sector of the West Antarctic Ice Sheet since the Last Glacial Maximum. *Quaternary Science Reviews*, v. 100, p. 55-86. doi: <http://dx.doi.org/10.1016/j.quascirev.2013.10.016>

120. Bentley, M. J., Ó Cofaigh, C., Anderson, J. B., Conway, H., Davies, B., Graham, A. G. C., Hillenbrand, C.-D., Hodgson, D. A., Jamieson, S. S. R., Larter, R. D., Mackintosh, A., Smith, J. A., Verleyen, E., Ackert, R. P., Bart, P. J., Berg, S., Brunstein, D., Canals, M., Colhoun, E. A., Crosta, X., Dickens, W. A., Domack, E., Dowdeswell, J. A., Dunbar, R., Ehrmann, W., Evans, J., Favier, V., Fink, D., Fogwill, C. J., Glasser, N. F., Gohl, K., Gollé, N. R., Goodwin, I., Gore, D. B., Greenwood, S. L., Hall, B. L., Hall, K., Hedding, D. W., Hein, A. S., Hocking, E. P., **Jakobsson, M.**, Johnson, J. S., Jomelli, V., Jones, R. S., Klages, J. P., Kristoffersen, Y., Kuhn, G., Leventer, A., Licht, K., Lilly, K., Lindow, J., Livingstone, S. J., Massé, G., McGlone, M. S., McKay, R. M., Melles, M., Miura, H., Mulvaney, R., Nel, W., Nitsche, F. O., O'Brien, P. E., Post, A. L., Roberts, S. J., Saunders, K. M., Selkirk, P. M., Simms, A. R., Spiegel, C., Stollendorf, T. D., Sugden, D. E., van der Putten, N., van Ommen, T., Verfaillie, D., Vyverman, W., Wagner, B., White, D. A., Witus, A. E., and Zwart, D., 2014, A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. *Quaternary Science Reviews*, v. 100, p. 1-9. doi: <http://dx.doi.org/10.1016/j.quascirev.2014.06.025>
121. Anderson, J. B., Conway, H., Bart, P. J., Witus, A. E., Greenwood, S. L., McKay, R. M., Hall, B. L., Ackert, R. P., Licht, K., **Jakobsson, M.**, and Stone, J. O., 2014. Ross Sea paleo-ice sheet drainage and deglacial history during and since the LGM: *Quaternary Science Reviews*, v. 100, 31-34, doi: <http://dx.doi.org/10.1016/j.quascirev.2013.08.020>
122. O'Regan, M., Sellén, E., **Jakobsson, M.**, 2014. Middle to late Quaternary grain size variations and sea-ice rafting on the Lomonosov Ridge. *Polar Research* 33, 1-12. doi: 10.3402/polar.v33.23672
123. Thompson, B., Nycander, J., Nilsson, J., **Jakobsson, M.**, and Döös, K., Estimating ventilation time scales using overturning stream functions, in press, *Ocean Dynamics*. V. 64, p. 797-807. doi: 10.1007/s10236-014-0726-5
124. Freire, F., Gyllencreutz, R., Jafri, R., **Jakobsson, M.**, 2014. Acoustic evidence of a submarine slide in the deepest part of the Arctic, the Molloy Hole. *Geo-Marine Letters*, v. 34, p. 315-325. doi: 10.1007/s00367-014-0371-5
125. Furrer, R., Kirchner, N., and **Jakobsson, M.**, 2014. A Cross-Polar Modeling Approach to Hindcast Paleo-Arctic Mega Icebergs. A Storyboard, *Mathematics of Planet Earth*, 41-44. doi: 10.1007/978-3-642-32408-6_10
126. Witus, A. E., Branecky, C. M., Anderson, J. B., Szczuciński, W., Schroeder, D. M., Blankenship, D. D., and **Jakobsson, M.**, 2014. Meltwater intensive glacial retreat in polar environments and investigation of associated sediments: example from Pine Island Bay, West Antarctica. *Quaternary Science Reviews*, v. 85, p. 99-118. doi: 10.1016/j.quascirev.2013.11.021
127. Stranne, C., **Jakobsson, M.**, and Björk, G., 2014. Arctic Ocean perennial sea ice breakdown during the Early Holocene Insolation Maximum. *Quaternary Science Reviews*, v. 92, 123-132. doi: <http://dx.doi.org/10.1016/j.quascirev.2013.10.022>
128. Alexanderson, H., Backman, J., Cronin, T. M., Funder, S., Ingólfsson, Ó., **Jakobsson, M.**, Landvik, J. Y., Löwemark, L., Mangerud, J., März, C., Möller, P., O'Regan, M., and Spielhagen, R. F., 2014. An Arctic perspective on dating Mid-Late Pleistocene environmental history. *Quaternary Science Reviews*, v. 92, p. 9-31. doi: <http://dx.doi.org/10.1016/j.quascirev.2013.09.023>
129. Chauhan, T., Rasmussen, T. L., Noormets, R., **Jakobsson, M.**, and Hogan, K. A., 2014. Glacial history and paleoceanography of the southern Yermak Plateau since 132 ka BP. *Quaternary Science Reviews*, v. 92, p. 155-169. doi: <http://dx.doi.org/10.1016/j.quascirev.2013.10.023>

2013 (7)

130. Giustiniani, M., Tinivella, U., **Jakobsson, M.**, and Rebesco, M., 2013. Arctic Ocean Gas Hydrate Stability in a Changing Climate. *Journal of Geological Research*, v. 2013, p. 10. doi: <http://dx.doi.org/10.1155/2013/783969>
131. Arndt, J.E., Schenke, H.W., **Jakobsson, M.**, Nitsche, F.O., Buys, G., Goleby, B., Rebesco, M., Bohoyo, F., Hong, J., Black, J., Greku, R., Udintsev, G., Barrios, F., Reynoso-Peralta, W., Taisei, M., Wigley, R., 2013. The International Bathymetric Chart of the Southern Ocean (IBCSO) Version 1.0 – A new bathymetric compilation covering circum-Antarctic waters. *Geophysical Research Letters*, v. 40, p. 3111-3117. doi: 10.1002/grl.50413.
132. Kirchner, N. Furrer, R., **Jakobsson, M.**, Zwally, H.J., and Robbins, J.W., 2013, Statistical modeling of a former Arctic Ocean ice shelf complex using Antarctic analogies. *Journal of Geophysical Research - Earth Surface*, v. 118, no. 2, p. 1105-1117. DOI: 10.1002/jgrf.20077
133. Hanslik, D., Löwemark, L., **Jakobsson, M.**, 2013. Biogenic and detrital-rich intervals in central Arctic Ocean cores identified using x-ray fluorescence scanning. *Polar Research*, v. 32, article no. 18386. <http://dx.doi.org/10.3402/polar.v32i0.18386>
134. Nitsche, F.O., Gohl, K., Larter, R., Hillenbrand, C.D., Kuhn, G., Smith, J., Jacobs, S., Anderson, J., **Jakobsson, M.**, 2013. Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica. *Cryosphere*, v. 7, no. 1, p. 249-262. DOI: 10.5194/tc-7-249-201.

135. Kaufman, D., Cooper, K., Behl, R., Billups, R., Bright, J., Gardner, K., Horthy, P., **Jakobsson, M.**, Mendes, I., O'Leary, M., Polyak, L., Rasmussen, T., Rosa, F., and Schmidt, M., 2013. Amino acid racemization in mono-specific foraminifera from Quaternary deep-sea sediments. *Quaternary Geochronology*, v. 15, p. 50-61, doi: 10.1016/j.quageo.2012.07.006.
136. Lachner, J., Christl, M., Synal, H.-A., Frank, M., and **Jakobsson, M.**, 2013. Carrier free $^{10}\text{Be}/^{9}\text{Be}$ measurements with low-energy AMS: Determination of sedimentation rates in the Arctic Ocean: *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, v. 294, p. 67-71. doi: 10.1016/j.nimb.2012.07.016.

2012 (10)

137. **Jakobsson, M.**, Anderson, J.B., Nitsche, F.O., Gyllencreutz, R., Kirschner, A., Kirchner, N., O'Regan, M., Mohammad, R., and Eriksson, B., 2012. Ice Sheet Retreat Dynamics Inferred from Glacial Morphology of the Central Pine Island Bay Trough, West Antarctica. *Quaternary Science Reviews*. v. 38, p. 1-10. doi: 10.1016/j.quascirev.2011.12.017
138. **Jakobsson, M.**, Mayer, L., Coakley, B., Dowdeswell, J. A., Forbes, S., Fridman, B., Hodnesdal, H., Noormets, R., Pedersen, R., Rebesco, M., Schenke, H. W., Zarayskaya, Y., Accettella, D., Armstrong, A., Anderson, R. M., Bienhoff, P., Camerlenghi, A., Church, I., Edwards, M., Gardner, J. V., Hall, J. K., Hell, B., Hestvik, O., Kristoffersen, Y., Marcussen, C., Mohammad, R., Mosher, D., Nghiem, S. V., Pedrosa, M. T., Travaglini, P. G., and Weatherall, P., 2012, The International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0. *Geophysical Research Letters*, v. 39, no. 12, p. L12609. doi:10.1029/2012GL052219
139. Löwemark, L., O'Regan, M., Hanebuth, T. J. J., and **Jakobsson, M.**, 2012. Late Quaternary spatial and temporal variability in Arctic deep-sea bioturbation and its relation to Mn cycles. *Palaeoecology, Palaeoecology, Palaeoecology*, v. 365–366, p. 192-208.
140. Pontbriand, C. W., Soule, S. A., Sohn, R. A., Humphris, S. E., Kunz, C., Singh, H., Nakamura, K. I., **Jakobsson, M.**, and Shank, T., 2012. Effusive and explosive volcanism on the ultraslow-spreading Gakkel Ridge, 85°E, *Geochemistry, Geophysics, Geosystems*, v. 13, no. 10. doi: 10.1029/2012GC004187
141. Cronin, T. M., Dwyer, G. S., Farmer, J., Bauch, H. A., Spielhagen, R. F., **Jakobsson, M.**, Nilsson, J., Briggs, W. M., and Stepanova, A., 2012, Deep Arctic Ocean warming during the last glacial cycle. *Nature Geoscience*, v. 5, p. 631-634. doi: 10.1038/ngeo1557
142. García, M., Dowdeswell, J. A., Ercilla, G., and **Jakobsson, M.**, 2012. Recent glacially influenced sedimentary processes on the East Greenland continental slope and deep Greenland Basin. *Quaternary Science Reviews*, v. 49, p. 64-81. doi: 10.1016/j.quascirev.2012.06.016
143. Greenwood, S.L., Gyllencreutz, R., **Jakobsson, M.**, and Anderson, J.B., 2012. Ice flow switching and East/West Antarctic ice sheet roles in glaciation of the western Ross Sea, *GSA Bulletin*, v. 124, no. 11-12, p. 1736-149. doi: 10.1130/b30643.1
144. Kirshner, A. E., J. B. Anderson, M. **Jakobsson, M.** O'Regan, W. Majewski, and F. O. Nitsche, 2012. Post-LGM deglaciation in Pine Island Bay, West Antarctica. *Quaternary Science Reviews*. v. 38, p. 11-26. doi: 10.1016/j.quascirev.2012.01.017
145. Thompson, B., **Jakobsson, M.**, Nilsson, Nycander, J., and Döös, K., 2012. A model study of the first ventilated Arctic Ocean. *Polar Research*, v. 31. doi: 10.3402/polar.v31i0.10859
146. Hell, B., Broman, B., Jakobsson, L., **Jakobsson, M.**, Magnusson, Å. And Wiberg, P., 2012. The Use of Bathymetric Data in Society and Science: A Review from the Baltic Sea. *AMBIO: A Journal of the Human Environment*. v. 41, v. 2, p. 138-150. doi: 10.1007/s13280-011-0192-y.

2011 (7)

147. **Jakobsson, M.**, Anderson, J.B., Nitsche, F.O., Dowdeswell, J.A., Gyllencreutz, R., Kirchner, N., O'Regan, M.A., Alley, R.B., Anandkrishnan, S., Mohammad, R., Eriksson, B., Fernandez, R., Kirshner, A., Minzoni, R., Stollendorf, T., Majewski, W., 2011, Geological record of Ice Shelf Breakup and Grounding Line Retreat, Pine Island Bay, West Antarctica. *Geology*, v. 39, no. 7, p. 691-694. doi:10.1130/G32153.1 (Data repository item 20111212)
148. Polyak, L., and **Jakobsson, M.**, 2011. Quaternary sedimentation in the Arctic Ocean: Recent advances and further challenges. *Oceanography*. v. 24, no. 3, p. 52–64. doi: http://dx.doi.org/10.5670/oceanog.2011.55.
149. O'Regan, M., Williams, C.J., Frey, K.E., and **Jakobsson M.**, 2011. A synthesis of the long-term paleoclimatic evolution of the Arctic. *Oceanography*, v. 24, no. 3, p. 66–80. doi: http://dx.doi.org/10.5670/oceanog.2011.57.
150. Hell, B., and **Jakobsson, M.**, 2011. Gridding heterogeneous bathymetric data sets with stacked continuous curvature splines in tension. *Marine Geophysical Research*, v. 32, no. 4, p. 493-501.
151. Kirchner, N., Hutter, K., **Jakobsson, M.**, and Gyllencreutz, R., 2011. Capabilities and limitations of numerical ice sheet models: a discussion for Earth-scientists and modelers. *Quaternary Science Reviews*, v. 30, no. 25-26, p. 3691-3704.
152. Darby, D., Myers, W.B., **Jakobsson, M.**, Rigor, I., 2011, Dirty Sea Ice Characteristics and Sources: The Role of Anchor Ice, *Journal of Geophysical Research- Oceans*, 116, 9(C09008). doi: 10.1029/2010JC006675

153. Colleoni, F., Liakka, J., Krinner, G., **Jakobsson, M.**, Masina, S., Peyaud, V., 2011. The sensitivity of the Late Saalian (140 ka) and LGM (21 ka) Eurasian ice sheets to sea surface conditions. *Climate Dynamics*. v. 37, no. 3, p. 1-23. doi: 10.1007/s00382-010-0870-7

2010 (12)

154. **Jakobsson, M.**, Long, A., Ingólfsson, Ó., Kjær, K., and Spielhagen, R., 2010. New insights on Arctic Quaternary climate variability from palaeo-records and numerical modeling. *Quaternary Science Reviews*, v. 29, no. 25-26, p.3349-3358. doi: 10.1016/j.quascirev.2010.08.016
155. **Jakobsson, M.**, Nilsson, J., O'Regan, M., Backman, J., Löwemark, L., Dowdeswell, J.A., Mayer, L., Polyak, L., Colleoni, F., Anderson, L., Björk, G., Darby, D., Eriksson, B., Hanslik, D., Hell, B., Marcussen, C., Sellén, E., Wallin, Å., 2010. An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3505-3517. doi:10.1016/j.quascirev.2010.03.015
156. Björk, G., Anderson, L. G., **Jakobsson, M.**, Antony, D., Eriksson, B., Eriksson, P. B., Hell, B., Hjalmarsson, S., Janzen, T., Jutterström, S., Linders, J., Löwemark, L., Marcussen, C., Anders Olsson, K., Rudels, B., Sellén, E., and Sölvsten, M., 2010. Flow of Canadian basin deep water in the Western Eurasian Basin of the Arctic Ocean. *Deep Sea Research Part I: Oceanographic Research Papers*, v. 57, no. 4, p. 577-586, doi: 10.1016/j.dsr.2010.01.006
157. Thompson, B., Nilsson, J., Nycander, J., **Jakobsson, M.**, and Döös, K., 2010, Ventilation of the Miocene Arctic Ocean: An idealized model study. *Paleoceanography*, v. 25, p. PA4216.
158. O'Regan, M. A., St. John, K., Moran, K., Backman, K., King, J., Haley, B. A., **Jakobsson, M.**, Frank, M., and Röhl, U., 2010. Plio-Pleistocene trends in ice rafted debris on the Lomonosov Ridge, *Quaternary International*. v. 219, p. 168-176, doi:10.1016/j.quaint.2009.08.010
159. Hanslik, D., **Jakobsson, M.**, Backman, J., Björck, S., Sellén, E., O'Regan, M., Fornaciari, E., and Skog, G., 2010. Quaternary Arctic Ocean sea ice variations and C¹⁴ reservoir age corrections. *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3430-3441, doi:10.1016/j.quascirev.2010.06.011
160. Dowdeswell, J.A., **Jakobsson, M.**, Hogan, K.A., O'Regan, M., Backman, J., Evans, B., Evans, J., Hell, B., Löwemark, L., Marcussen, C., Noormets, R., Ó Cofaigh, Sellén, E., and Sölvsten, M., 2010. High-resolution geophysical observations from the Yermak Plateau and northern Svalbard margin: implications for ice-sheet grounding and deep-keeled icebergs. *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3518-3531, doi: 2075/10.1016/j.quascirev.2010.06.002
161. O'Regan, M., **Jakobsson, M.**, and Kirchner, N., 2010. Glacial geological implications of overconsolidated sediments on the Lomonosov Ridge and Yermak Plateau. *Quaternary Science Reviews*, v. 29, no. 25-26, 3532-3544, doi: 10.1016/j.quascirev.2010.09.009
162. Sellén, E., O'Regan, M., and **Jakobsson, M.**, 2010. Spatial and temporal Arctic Ocean depositional regimes: a key to the evolution of ice drift and current patterns: *Quaternary Science Reviews*, v. 29, no. 25-26, 3644-3664, doi:10.1016/j.quascirev.2010.06.005.
163. Cronin, T.M., Gemery, L., Briggs, Jr. W.M., **Jakobsson, M.**, Polyak, L., and Brouwers, E. M., 2010. Quaternary Sea Ice History in the Arctic Ocean based on a new Ostracode Sea-Ice Proxy. *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3415-3429. doi: 10.1016/j.quascirev.2010.05.024.
164. Colleoni, F., Krinner, G., and **Jakobsson, M.**, 2010. The role of an Arctic ice shelf in the climate of the MIS 6 glacial maximum (140 ka): *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3590-3597, doi:10.1016/j.quascirev.2010.06.023.
165. Hogan, K.A., Dowdeswell, J.A., Noormets, R., Evans, J., Ó Cofaigh, C., and **Jakobsson, M.**, 2010. Submarine bedforms and ice-sheet flow in the Kvitøya Trough, northwestern Barents Sea. *Quaternary Science Reviews*, v. 29, no. 25-26, p. 3545-3562. doi: 10.1016/j.quascirev.2010.08.015.

2009 (6)

166. Smedberg, E., Humborg, C., **Jakobsson, M.**, and Mörth, C-M., 2009. Landscape elements and river chemistry as affected by river regulation - a 3-D perspective. *Hydrology and Earth System Sciences*, v.13, no. 9, p. 1597-1606.
167. Colleoni, F., Krinner, G., **Jakobsson, M.**, Peyaud, V., and Ritz, C., 2009. Influence of dust deposition and proglacial lakes on the surface mass balance of the large Eurasian ice sheet during the peak Saalian (140 kyrs BP), *Global and Planetary Change*. v. 68, no. 1-2, p. 132-148. doi:10.1016/j.gloplacha.2009.03.021.
168. Colleoni, F., Krinner, G., and **Jakobsson, M.**, 2009. Sensitivity of the Late Saalian (140 kyrs BP) and LGM (21 kyrs BP) Eurasian ice sheet surface mass balance to vegetation feedbacks. *Geophysical Research Letters*. v. 36, L08704, doi: 10.1029/2009GL037200.
169. Darby, D., Polyak, L., and **Jakobsson, M.**, 2009. The 2005 HOTRAX Expedition to the Arctic Ocean. *Global and Planetary Change*. V. 68, no. 1-2, p. 1-4. doi:10.1016/j.gloplacha.2009.02.007.

170. Darby, D., Ortiz, J., Polyak, L., Lund, S., **Jakobsson, M.**, and Woodgate, R.A., 2009. The role of currents and sea ice in both slowly deposited central Arctic and rapidly deposited Chukchi-Alaskan margin sediments. *Global and Planetary Change*. v. 68, no. 1-2, p. 56-70, doi:10.1016/j.gloplacha.2009.02.007.
171. Sellén, E., **Jakobsson, M.**, Frank, M., and Kubik, P. W., 2009. Pleistocene Variations of Beryllium Isotopes in Central Arctic Ocean Sediment Cores, *Global and Planetary Change*. v. 68, no. 1-2, p. 38-47. doi:10.1016/j.gloplacha.2009.03.024.

2008 (13 articles)

172. **Jakobsson, M.**, Macnab, R., Mayer, M., Anderson, R., Edwards, M., Hatzky, J., Schenke, H-W., and Johnson, P., 2008. An improved bathymetric portrayal of the Arctic Ocean: Implications for ocean modeling and geological, geophysical and oceanographic analyses. *Geophysical Research Letters*, v. 35, L07602, doi:10.1029/2008GL033520.
173. **Jakobsson, M.**, Polyak, L., Edwards, M., Kleman, J., and Coakley, B., 2008. Glacial geomorphology of the Central Arctic Ocean: The Chukchi Borderland and the Lomonosov Ridge, *Earth Surface Processes and Landforms*, v. 33, no. 4, p. 526-545, doi:10.1029/2008GL033520.
174. **Jakobsson, M.**, Spielhagen, R.F., Thiede, J., Andreasen, C., Hall, B., Ingólfsson, O., Kjaer, K.H., van Kolschoten, T., Krinner, G., Long, A., Lunkka, J.P., Subetto, D., and Svendsen, J-I., 2008. Arctic Palaeoclimate and its Extremes (APEX), *Polar Research*, v. 27, p. 97-104. doi:10.1111/j.1751-8369.2008.00063.x.
175. Sturkell, E., **Jakobsson, M.**, and Gyllencreutz, R., 2008. How true are geological maps? An exercise in geological mapping, *Journal of Geoscience Education*, v. 56, no. 4, p. 297-301.
176. Sohn, R.A., Willis, C., Humphris, S., Shank, T., Singh, H., Edmonds, H., Kunz, C., Hedman, U., Helmke, E., Jakuba, M., Liljebladh, B., Linder, J., Murphy, C., Nakamura, K-i., Sato, T., Schindwein, V., Stranne, C., Tausenfreund, M., Upchurch, L., Winsor, P., **Jakobsson, M.**, and Soule, A., 2008. Explosive volcanism on the ultra-slow-spreading Gakkel Ridge, *Nature*, v. 453, no. 7199, p. 1236-1238. doi: 10.1038/nature07075.
177. Löwemark, L., **Jakobsson, M.**, Mörth, M., and Backman, J., 2008. Arctic Ocean manganese contents and sediment color cycles, *Polar Research*, v. 27, no. 2, p. 105-113. doi:10.1111/j.1751-8369.2008.00055.x.
178. Hell, B., and **Jakobsson, M.**, 2008. Data Model and Processing Environment for Compiling Heterogeneous Bathymetric Data, *International Hydrographic Review*, v. 9, no. 1, p. 23-33.
179. O'Regan, M., Moran, K., Backman, J., **Jakobsson, M.**, Sangiorgi, F., Brinkhuis, H., Pockalny, R., Skelton, A., Stickley, C., Koc, N., Brumsack, H., and Willard, D., 2008. Mid-Cenozoic tectonic and paleoenvironmental setting of the central Arctic Ocean. *Paleoceanography*, v. 23, PA1S20. doi:10.1029/2007PA001559.
180. O'Regan, M., King, J., Backman, J., **Jakobsson, M.**, Pälike, H., Moran, K., Heil, C., Sakamoto, T., Cronin, T. M., and Jordan, R.W., 2008. Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge, *Paleoceanography*, v. 23, PA1S19. doi:10.1029/2007PA001551.
181. Backman, J., **Jakobsson, M.**, Frank, M., Sangiorgi, F., Brinkhuis, H., Stickley, C., O'Regan, M., Løvlie, R., Pälike, H., Spofforth, D., Gattacceca, J., Moran, K., King, J., and Heil, C., 2008. Age model and core-seismic integration for the Cenozoic Arctic Coring Expedition sediments from the Lomonosov Ridge. *Paleoceanography*, v. 23, PA1S03. doi:10.1029/2007PA001476.
182. Frank, M., Backman, J., **Jakobsson, M.**, Moran, K., O'Regan, M., King, J., Haley, A.B., Kubik, W.P., and Garbe-Schönberg, D., 2008. Beryllium isotopes in central Arctic Ocean sediments over the past 12.3 million years: Stratigraphic and paleoclimatic implications. *Paleoceanography*, v. 23, PA1S02. doi:10.1029/2007PA001478.
183. Sellén, E., **Jakobsson, M.**, Backman, 2008. Sedimentary regimes in Arctic's Amerasian and Eurasian Basins: Clues to differences in sedimentation rates. *Global and Planetary Change*, v. 61, no. 3-4, p. 275-284, doi:10.1016/j.gloplacha.2007.10.007.

2007 (5)

184. **Jakobsson, M.**, Björck, S., Alm, G., Andrén, T., Lindeberg, G., and Svensson, N-O., 2007, Reconstructing the Younger Dryas ice dammed lake in the Baltic Basin: Bathymetry, area and volume, *Global and Planetary Change*, 57, p. 355-370, doi:10.1016/j.gloplacha.2007.01.006
185. **Jakobsson, M.**, Backman, J., Rudels, B., Nycander, J., Frank, M., Mayer, L., Jokat, W., Sangiorgi, F., O'Regan, M., Brinkhuis, H., King, J., and Moran, K., 2007, The Early Miocene Onset of a Ventilated Circulation Regime in the Arctic Ocean, *Nature*, v. 447. no. 21, p. 986-990, doi:10.1038/nature05924 (plus Supplementary information)
186. Björck, G., **Jakobsson, M.**, Rudels, B., Swift, J.H., Anderson, L., Darby, D.A., Backman, J., Coakley, B., Winsor, P., Polyak, L., and Edwards, M., 2007, Bathymetry and deep-water exchange across the central Lomonosov Ridge at 88°-89°N, *Deep-Sea Research I*, v. 54, p. 1197-1208, doi:10.1016/j.dsr.2007.05.010
187. Skelton, A., and **Jakobsson, M.**, Could peridotite hydration reactions have provided a contributory driving force for Cenozoic uplift and accelerated subsidence along the margins of the North Atlantic and Labrador Sea? *Norwegian Journal of Geology*, v. 87, p. 241-248, ISSN 029-196X.

188. Polyak, L., Darby, D., Bischof, J., and **Jakobsson, M.**, 2007, Stratigraphic constraints on late Pleistocene glacial erosion and deglaciation of the Chukchi margin, Arctic Ocean, *Quaternary Research*, v. 67, p. 234-245, doi:10.1016/j.yqres.2006.08.001

2006 (9)

189. **Jakobsson, M.**, and Macnab, R., 2006, A comparison between GEBCO Sheet 5.17 and the International Bathymetric Chart of the Arctic Ocean (IBCAO) version 1.0, *Marine Geophysical Researches*, v. 27, no. 1, p. 35-48.
190. **Jakobsson, M.**, Flodén, T., and the Expedition 302 Scientists, 2006, Expedition 302 geophysics: integrating past data with new results. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.102.2006
191. **Jakobsson, M.**, Siegert, M., and Paton, M., in 2006, Is grounding of an ice shelf possible in the central Arctic Ocean? A modelling experiment, in Scott, R.A., and Thurston, D.K., eds., Fourth International Conference on Arctic Margins, ICAM IV, Volume IV: Dartmouth, Nova Scotia, Canada, U.S. Department of the Interior Mineral Management Services, p. 141-156.
192. Pagani, M., (+7 et alii and the Expedition 302 Scientist incl. **Jakobsson, M.**), 2006, Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum, *Nature*, v. 442, p. 671-675. doi:10.1038/nature05043
193. Sluijs, A., (+14 et alii and the Expedition 302 Scientist incl. **Jakobsson, M.**), 2006, Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum, *Nature*, v. 441, p. 610-613. doi:10.1038/nature04668
194. Moran, K., (+ 36 et alii including **Jakobsson, M.**), 2006, The Cenozoic palaeoenvironment of the Arctic Ocean, *Nature*, v. 441, p. 601-605. doi:10.1038/nature04800
195. Brinkhuis, H., (+ 21 et alii and the Expedition 302 Scientists incl. **Jakobsson, M.**), 2006. Episodic fresh surface waters in the Eocene Arctic Ocean, *Nature*, v. 441, p. 606-609. doi:10.1038/nature04692
196. Moore, T.C., and the Expedition 302 Scientists, 2006, Sedimentation and subsidence history of the Lomonosov Ridge. In Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition 302 Scientists, Proc. IODP, 302: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.302.105.2006
197. Gyllencreutz, R., Backman, J., **Jakobsson, M.**, Kissel, C., Arnold, E., 2006. Post-glacial paleoceanography in the Skagerrak. *Holocene*, v. 16, no. 7, p. 973-983.

2005 (6)

198. Darby, D., **Jakobsson, M.**, and Polyak, L., 2005, Icebreaker Expedition Collects Key Arctic Sea Floor and Ice Data, *EOS Transactions*, American Geophysical Union, v. 86, no. 52, p. 549-556.
199. **Jakobsson, M.**, Armstrong, A., Calder, B., Huff, L., Mayer, L., and Ward, L., 2005, On the use of Historical Bathymetric Data to Determine Changes in Bathymetry: An Analysis of Errors and Application to Great Bay Estuary, New Hampshire, *International Hydrographic Review*, v. 6, no 3.
200. **Jakobsson, M.**, Gardner, J.V., Vogt, P., Mayer, L.A., Armstrong, A., Backman, J., Brennan, R., Calder, B., Hall, J.K., and Kraft, B., 2005, Multibeam bathymetric and sediment profiler evidence for ice grounding on the Chukchi Borderland, Arctic Ocean, *Quaternary Research*, v. 63, p. 150-160.
201. Skogseth, R., Haugan, P. M., and **Jakobsson, M.**, 2005, Watermass transformation in Storfjorden, *Continental Shelf Research*, v. 25, p. 667-695.
202. Gyllencreutz, R., **Jakobsson, M.**, and Backman, J., 2005, Holocene sedimentation from in the Skagerrak interpreted from chirp sonar and core data, *Journal of Quaternary Science*, v. 20(1), p. 21-32.
203. Backman, J., Moran, K., McInroy, D., the Expedition 302 Scientists, 2005. IODP Expedition 302, Arctic Coring Expedition (ACEX): A first look at the Cenozoic paleoceanography of the central Arctic Ocean. *Scientific Drilling*, v. 1, p. 12-17.

2004 (5)

204. Krinner, G., Mangerud, M., **Jakobsson, M.**, Crucifix, M., Ritz, C., Svendsen, J.I., and Genthon, C., 2004, Enhanced ice sheet growth in Eurasia owing to adjacent ice-dammed lakes, *Nature*, v. 427, p. 429-432.
205. Backman, J., **Jakobsson, M.**, Løvlie, R., and Polyak, L., 2004, Is the central Arctic Ocean a sediment starved basin?, *Quaternary Science Reviews* special QUEEN volume, v. 23, p. 1435-1454.
206. Mangerud, J., **Jakobsson, M.**, Alexanderson, H., Astakov, V., Clarke, G., Henriksen, M., Hjort, C., Krinner, G., Lunkka, J.P., Moller, P., Murray, A., Nikolskaya, O., Saarnisto, M., and Svendsen, J.I., 2004, Ice-dammed lakes and rerouting of the drainage of Northern Eurasia during the last glaciation, *Quaternary Science Reviews* special QUEEN volume, *Quaternary Science Reviews*, v. 23, p. 1313-1332.
207. Svendsen, J.I., Alexanderson, H., Astakhov, V.I., Demidov, I., Dowdeswell, J.A., Henriksen, M., Hjort, C., Houmark-Nielsen, M., Hubberten, H.W., Ingólfson, O., **Jakobsson, M.**, Kjær, K., Larsen, E., Lokrantz, H.,

Lunkka, J.P., Lyså, A., Mangerud, J., Maslenikova, O., Matioushkov, A., Murray, A., Möller, P., Niessen, F., Saarnisto, M., Siegert, C., Stein, R., Siegert, M.J., Spielhagen, R., 2004, The late Quaternary ice sheet history of Northern Eurasia, *Quaternary Science Reviews* special QUEEN volume, *Quaternary Science Reviews*, v. 23, p. 1229-1271.

208. Hubberten, H.W., Andreev, A., Astakhov V.I., Demidov, I., Dowdeswell, J.A., Henriksen, M., Hjort, C., Houmark-Nielsen, M., **Jakobsson, M.**, Kuzmina, S., Larsen, E., Lunkka, J.P., Lyså, A., Mangerud, J., Möller, P., Saarnisto, M., Schirmer, L., Sher, A.V., Siegert, C., Siegert, M.J., and Svendsen, J-I., 2004, The periglacial environment and climate in Northern Eurasia during the last glaciation, *Quaternary Science Reviews*, v. 23, p. 1333-1357.

2003 (3)

209. **Jakobsson, M.**, Grantz, A., Kristoffersen, Y., and Macnab, R., 2003, Physiographic provinces of the Arctic Ocean, *GSA Bulletin*, v.115, no. 12, p. 1443-1455.
210. **Jakobsson, M.**, Mayer, L., and Armstrong, A., 2003, Analysis of data relevant to extending a coastal State's jurisdiction over the seafloor under Law of the Sea Article 76, *International Hydrographic Review*, v. 4(1), 17 pp.
211. **Jakobsson, M.**, Backman, J., Murray, A., and Løvlie, R., 2003, Optically stimulated luminescence dating supports central Arctic Ocean cm-scale sedimentation rates, *Geochemistry Geophysics Geosystems*, v.4, no. 2. p. 1-11.

2002 (2)

212. **Jakobsson, M.**, Calder, B., and Mayer, L., 2002, On the effect of random errors in gridded bathymetric compilations, *Journal of Geophysical Research*, v. 107(B12), p. ETG 14-1 to ETG 14-11.
213. **Jakobsson, M.**, 2002, Hypsometry and volume of the Arctic Ocean and its constituent seas, *Geochemistry Geophysics Geosystems*, v. 3, no. 2, p. 1-18.

2001 (3 articles)

214. **Jakobsson, M.**, Løvlie, R., Arnold, E. M., Backman, J., Polyak, L., Knutsen, J.O., and Musatov, E., 2001, Pleistocene stratigraphy and paleoenvironmental variation from Lomonosov Ridge sediments, central Arctic Ocean, *Global and Planetary Change*, v. 31, no. 1-4, p. 1-21.
215. Mangerud, J., Astakov, V., **Jakobsson, M.** and Svendsen, J. I., 2001, Huge ice-age lakes in Russia, *Journal of Quaternary Science*, v. 16, no. 9, p. 773-777.
216. Polyak, L., Edwards, M. H., Coakley, B. J. and **Jakobsson, M.**, 2001, Ice shelves in the Pleistocene Arctic Ocean inferred from glaciogenic deep-sea bedforms, *Nature*, v. 410, p. 453-457.

2000 (3)

217. Macnab, R. and **Jakobsson, M.**, 2000, Something old, something new: compiling historic and contemporary data to construct regional bathymetric maps, with the Arctic Ocean as a case study, *International Hydrographic Review*, v. 1, no. 1, p. 2-16
218. **Jakobsson, M.**, Cherkis, N., Woodward, J., Coakley, B., and Macnab, R., 2000, New grid of Arctic bathymetry aids scientists and mapmakers, *EOS Transactions*, American Geophysical Union, v. 81, no. 9, p. 89, 93, 96.
219. **Jakobsson, M.**, Løvlie, R., Al-Hanbali, H., Arnold, E., Backman, J., and Mörth, M., 2000, Manganese and color cycles in Arctic Ocean sediments constrain Pleistocene chronology, *Geology*, v. 28, p. 23-26.

1999 (1)

220. **Jakobsson, M.**, 1999, First high-resolution chirp sonar profiles from the central Arctic Ocean reveal erosion of Lomonosov Ridge sediments, *Marine Geology*, v. 154, p. 111-123.

3. Books and book chapters 2016-2025

Numbers 2-20 listed are **peer-reviewed** chapters published in the *Geological Society of London Memoir*. This is three years' work completed and published 2016:

Dowdeswell, J. A., Canals, M., **Jakobsson, M.**, Todd, B. J., Dowdeswell, E. K. & Hogan, K. A. (eds) 2016. Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs, 46, 1–2, <http://doi.org/10.1144/M46.43>

Chapters:

1. **Jakobsson, M.**, Dowdeswell, J.A., Kirchner, N., Noormets, R., Shephard, 2025 Oceanography, marine geology, cryosphere and climate of Svalbard, in: NATURAE OBSERVATIO SPITSBERGEN: Science

- Expeditions, eds. Ardeberg, A., Hansen, L., and Hansen, V., MUNDUS LINNÆI SERIES. IK Foundation, pp. 130–160.
2. Dowdeswell, J. A., Canals, M., **Jakobsson, M.**, Todd, B. J., Dowdeswell, E. K., and Hogan, K. A., 2016, Introduction: an Atlas of Submarine Glacial Landforms: Geological Society, London, Memoirs, v. 46, no. 1, p. 3-14. doi:10.1144/M46.171
 3. **Jakobsson, M.**, Gyllencreutz, R., Mayer, L. A., Dowdeswell, J. A., Canals, M., Todd, B. J., Dowdeswell, E. K., Hogan, K. A., and Larter, R. D., 2016, Mapping submarine glacial landforms using acoustic methods: Geological Society, London, Memoirs, v. 46, no. 1, p. 17-40. doi:10.1144/M46.182
 4. Greenwood, S. L., and **Jakobsson, M.**, 2016, Enigmatic ridges in Lake Vättern, Sweden: Geological Society, London, Memoirs, v. 46, no. 1, p. 117-118. doi:10.1144/M46.27
 5. **Jakobsson, M.**, O'Regan, M., Greenwood, S. L., Flodén, T., Swärd, H., Björck, S., and Skelton, A., 2016, Postglacial tectonic structures and mass wasting in Lake Vättern, southern Sweden: Geological Society, London, Memoirs, v. 46, no. 1, p. 119-120. doi:10.1144/M46.58
 6. **Jakobsson, M.**, Greenwood, S. L., Hell, B., and Öiås, H., 2016, Drumlins in the Gulf of Bothnia: Geological Society, London, Memoirs, v. 46, no. 1, p. 197-198. doi:10.1144/M46.43
 7. Gyllencreutz, R., Freire, F., Greenwood, S. L., Mayer, L. A., and **Jakobsson, M.**, 2016, Glacial landforms in a hard bedrock terrain, Melville Bay, northwestern Greenland: Geological Society, London, Memoirs, v. 46, no. 1, p. 201-202. doi:10.1144/M46.118
 8. Greenwood, S. L., **Jakobsson, M.**, Hell, B., and Öiås, H., 2016, Esker systems in the Gulf of Bothnia: Geological Society, London, Memoirs, v. 46, no. 1, p. 209-210. doi:10.1144/M46.28
 9. Anderson, J. B., and **Jakobsson, M.**, 2016, Grounding-zone wedges on Antarctic continental shelves: Geological Society, London, Memoirs, v. 46, no. 1, p. 243-244. doi:10.1144/M46.7
 10. **Jakobsson, M.**, and Anderson, J. B., 2016, Corrugation ridges in the Pine Island Bay glacier trough, West Antarctica: Geological Society, London, Memoirs, v. 46, no. 1, p. 265-266. doi:10.1144/M46.5
 11. **Jakobsson, M.**, and O'Regan, M., 2016, Deep iceberg ploughmarks in the central Arctic Ocean: Geological Society, London, Memoirs, v. 46, no. 1, p. 287-288. doi:10.1144/M46.14
 12. **Jakobsson, M.**, and O'Regan, M., 2016, Pockmarks on the Mendeleev Rise, central Arctic Ocean: Geological Society, London, Memoirs, v. 46, no. 1, p. 297-298. doi:10.1144/M46.120
 13. Ananyev, R., Dmitrevskiy, N., **Jakobsson, M.**, Lobkovsky, L., Nikiforov, S., Roslyakov, A., and Semiletov, I., 2016, Sea-ice ploughmarks in the eastern Laptev Sea, East Siberian Arctic shelf: Geological Society, London, Memoirs, v. 46, no. 1, p. 301-302. doi:10.1144/M46.109
 14. Lobkovsky, L., Ananyev, R., Dmitrevskiy, N., Dudarev, O., **Jakobsson, M.**, Nikiforov, S., and Roslyakov, A., 2016, Permafrost patterns in the SE Laptev Sea, East Siberian Arctic Ocean: Geological Society, London, Memoirs, v. 46, no. 1, p. 311-312. doi:10.1144/M46.78
 15. **Jakobsson, M.**, O'Regan, M., Gyllencreutz, R., and Flodén, T., 2016, Seafloor terraces and semi-circular depressions related to fluid discharge in Stockholm Archipelago, Baltic Sea: Geological Society, London, Memoirs, v. 46, no. 1, p. 305-306. doi:10.1144/M46.162
 16. Greenwood, S. L., Clason, C. C., and **Jakobsson, M.**, 2016, Ice-flow and meltwater landform assemblages in the Gulf of Bothnia: Geological Society, London, Memoirs, v. 46, no. 1, p. 321-324. doi:10.1144/M46.163
 17. Batchelor, C. L., Dowdeswell, J. A., **Jakobsson, M.**, Hogan, K. A., and Gebhardt, C. A., 2016, Landform assemblage produced by ice-grounding events on the Yermak Plateau: Geological Society, London, Memoirs, v. 46, no. 1, p. 329-332. doi:10.1144/M46.169
 18. **Jakobsson, M.**, 2016, Submarine glacial landform distribution in the central Arctic Ocean shelf–slope–basin system: Geological Society, London, Memoirs, v. 46, no. 1, p. 469-476. doi:10.1144/M46.179
 19. Graham, A. G. C., **Jakobsson, M.**, Nitsche, F. O., Larter, R. D., Anderson, J. B., Hillenbrand, C.-D., Gohl, K., Klages, J. P., Smith, J. A., and Jenkins, A., 2016, Submarine glacial-landform distribution across the West Antarctic margin, from grounding line to slope: the Pine Island–Thwaites ice-stream system: Geological Society, London, Memoirs, v. 46, no. 1, p. 493-500. doi:10.1144/M46.173
 20. Bell, T., Cooper, A. K., Solheim, A., Todd, B. J., Dowdeswell, J. A., Canals, M., **Jakobsson, M.**, Dowdeswell, E. K., and Hogan, K. A., 2016, Glossary of glaciated continental margins and related geoscience methods: Geological Society, London, Memoirs, v. 46, no. 1, p. 555-574. doi:10.1144/M46.177
 21. **Jakobsson, M.**, International Bathymetric Chart of the Arctic Ocean (IBCAO), 2016. *in* Harff, J., Meschede, M., Petersen, S., and Thiede, J. (Eds), Encyclopedia of Marine Geosciences, Springer, 5 pp.
 22. **Jakobsson, M.**, Hell, B., Mohammad, R., Weatherall, P., IBCAO Compilation Team, 2013. Gridding the International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0, *In*: Marks, K. (Ed.), IHO-IOC GEBCO Cook Book. International Hydrographic Organization (IHO), Monaco, pp. 139-163.

23. Rudels, B., Anderson, L., Eriksson, P., Fahrbach, E., **Jakobsson, M.**, Jones, P.E., Melling, H., Prinsenber, S., Schauer, U., and Yao, T., 2012, Observations in the Ocean, *in* Lemke, P., ed., Arctic Climate Change: The ACSYS Decade and Beyond, Volume 43, Springer, p. 117-198.
24. **Jakobsson, M.**, International Bathymetric Chart of the Arctic Ocean (IBCAO), 2016. *in* Harff, J., Meschede, M., Petersen, S., and Thiede, J. (Eds), Encyclopedia of Marine Geosciences, Springer, 5 pp.
25. **Jakobsson, M.**, Hell, B., Mohammad, R., Weatherall, P., IBCAO Compilation Team, 2013. Gridding the International Bathymetric Chart of the Arctic Ocean (IBCAO) Version 3.0, In: Marks, K. (Ed.), IHO-IOC GEBCO Cook Book. International Hydrographic Organization (IHO), Monaco, pp. 139-163.

3. Compiled data sets used by the broader scientific community

1. GEBCO Compilation Group (incl, **Jakobsson, M.**), 2025. GEBCO 2025 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. (<https://www.gebco.net/>). Doi: 10.5285/37c52e96-24ea-67ce-e063-7086abc05f29
2. GEBCO Compilation Group (incl, **Jakobsson, M.**), 2024. GEBCO 2024 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. (<https://www.gebco.net/>). Doi:10.5285/1c44ce99-0a0d-5f4f-e063-7086abc0ea0f
3. GEBCO Compilation Group (incl, **Jakobsson, M.**), 2023. GEBCO 2023 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. (<https://www.gebco.net/>). Doi: 10.5285/f98b053b-0cbc-6c23-e053-6c86abc0af7b
4. GEBCO Compilation Group (incl, **Jakobsson, M.**), 2022. GEBCO 2022 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. (<https://www.gebco.net/>). Doi: 10.5285/e0f0bb80-ab44-2739-e053-6c86abc0289c
5. GEBCO Compilation Group (incl, **Jakobsson, M.**), 2021. GEBCO 2021 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. (<https://www.gebco.net/>). Doi: 10.5285/c6612cbe-50b3-0cff-e053-6c86abc09f8f
6. IBCAO Compilation group (led by **Jakobsson, M.**), 2020 and 2021. The International Bathymetric Chart of the Arctic Ocean (IBCAO). Bathymetric grid models and source identification grids. Available for download at: <https://www.gebco.net/>. Version 4.0 and 4.1 released 2020 respective 2021. Doi for 4.0: 10.5285/a01d292f-b4a0-1ef7-e053-6c86abc0a4b2
7. GEBCO Compilation Group (incl. **Jakobsson, M.**), 2019. GEBCO 2019 Grid, in: The Nippon Foundation-GEBCO-Seabed 2030 project. Available for download at <https://www.gebco.net/>. Doi: <https://doi.org/10.5285/836f016a-33be-6ddc-e053-6c86abc0788e>
8. GEBCO Compilation Group (incl. **Jakobsson, M.**), 2014. GEBCO 2014 Grid, Available for download at https://www.gebco.net/news_and_media/gebco_2014_grid.html
9. IBCAO Compilation group (led by **Jakobsson, M.**), 2012. The International Bathymetric Chart of the Arctic Ocean (IBCAO). Bathymetric grid models, contours and maps of the Arctic Ocean. Available for download at: <http://www.ibcao.org> or https://www.gebco.net/about_us/committees_and_groups/scrumb/ibcao/ Version 3.0 released December 2012.
10. IBCAO Compilation group (led by **Jakobsson, M.**), 2008. The International Bathymetric Chart of the Arctic Ocean (IBCAO). Bathymetric grid models, contours and maps of the Arctic Ocean. Available for download at: <http://www.ibcao.org> or https://www.gebco.net/about_us/committees_and_groups/scrumb/ibcao/ Version 2.0 released April 2008.

Popular science

1. **Jakobsson, M.**, 2023, To predict future sea level rise, we need accurate maps of the world's most remote fjords, The Conversation, <https://theconversation.com/to-predict-future-sea-level-rise-we-need-accurate-maps-of-the-worlds-most-remote-fjords-206236>
2. **Jakobsson, M. and Mayer, L.A.**, 2023, Mapping northern Greenland waters: A blank spot on nautical charts in ice-infested waters, Hydro International, no 3, p. 17-21.
3. **Jakobsson, M.**, The Long Timeline of the Ice: A Geological Perspective (Based on English version of book chapter in "Arktiska spar"). *The Journal of Northern Studies*.
4. **Jakobsson, M.**, 2020. Isens långa liv: Ett geologiskt perspektiv på Norra Ishavet. Chapter in "Arktiska Spår", book released following exhibition at The Nordic Museum, Sthlm. p. 50-71.
5. **Jakobsson, M.**, Mix, A., and Mayer, L., 2020. Ryder 2019 Expedition: flag #51: *Explorers Log*, v. 52, no. 1, p. 20-22.
6. **Jakobsson, M.**, et al., 2020. (Titel in Swedish) Isbrytaren Oden ...: *Sjöväsendet*, v. 183, no. 3. P. 287-295.
7. Mix, A., and **Jakobsson, M.**, and the Petermann-2015 Scientific Party. 2015, Petermann-2015 Expedition: *Witness the Arctic*: www.arcus.org/witness-the-arctic/2015/3/article/24490.
8. **Jakobsson, M.**, 2013, Spelet om Arktis, *Tidskrift i Sjöväsendet*, no 3, 308-316.

9. **Jakobsson, M.**, 2012, Arctic Palaeoclimate and its Extremes, *IASC 2012 Bulletin*, p. 30-33, ISSN: 1654-7594, ISBN: 978-3-9813637-3-9
10. Backman, J., **Jakobsson, M.**, Kleman, J., and Nordlund, S., 2011, Polarforskning, SvD Brännpunkt, 5 Sept.
11. **Jakobsson, M.**, 2011, Arctic Palaeoclimate and its Extremes, *IASC 2011 Bulletin*, p. 47-51, ISSN: 1654-7594, ISBN: 978-3-9813637-1-5
12. Macnab, R. and **Jakobsson, M.**, 2009, Mapping the Arctic seabed: Still a work in progress, *Lighthouse, Journal of the Canadian Hydrographic Association*, v. 74.
13. Darby, D., Polyak., L., and **Jakobsson, M.**, 2009., Initial Results of HOTRAX Address a Wide Range of Arctic Paleoclimate Issues, *PAGES Newsletter*, v. 17, no. 1.
14. **Jakobsson, M.**, and Backman, J., 2008, Världshavets gåtor, *Geologiskt Forum*, no 57 (March).