

## Publications 2018-01-14

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### Summary of Publication Statistics (since 2008 is written in brackets)

Peer-reviewed original articles: 143 (100)

First authored peer-reviewed original articles: 31 (15)

Research review articles (listed among peer-reviewed articles): 10 (10)

Book chapters since 2008: 25 (22 are peer-reviewed)

Books: 1

### Five most cited first authored publications from Google Scholar: 2017-02-26

1. **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,
2. **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.
3. **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.
4. **Jakobsson, M.**, 2002. Hypsometry and volume of the Arctic Ocean and its constituent seas. *Geochemistry Geophysics Geosystems*, v. 3, no. 2, p. 1-18.
5. **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.

### 1. Peer-reviewed original articles 1999-2017

**2017** (16; published and in press)

1. 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
2. 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
3. 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: *Clim. Past Discuss.*, v. 2017, p. 1-28.
4. **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., Semilietov, 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
5. 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 Zinglensen, 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.
  6. 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: *Clim. Past*, v. 13, no. 9, p. 1269-1284.
  7. 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: *Clim. Past*, v. 13, no. 9, p. 1097-1110.
  8. 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
  9. 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 Sci.*, v. 13, no. 2, p. 349-363.
  10. 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.
  11. 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. 0, no. 0, p. 0959683617702226.
  12. 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: *Clim. Past*, v. 13, no. 4, p. 303-316. Doi: 10.5194/cp-13-303-2017
  13. 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
  14. Chiu, P. Y., Chao, W. S., Gyllencreutz, R., **Jakobsson, M.**, Li, H. C., Löwemark, L., and O'Regan, M., in press, New constraints on Arctic Ocean Mn stratigraphy from radiocarbon dating on planktonic foraminifera: *Quaternary International*.
  15. 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.
  16. 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 Rijpfjorden and Duvefjorden, northern Nordaustlandet, Svalbard: *Journal of Quaternary Science*, v. 32, no. 3, p. 437-455. Doi: 10.1002/jqs.2938

## 2016 (10)

17. 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>
18. 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
19. 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 Communications*, v. 7. Doi: 10.1038/ncomms13653
20. 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
21. \***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 (*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)
22. #**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
23. 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.
24. 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
25. & **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. <http://dx.doi.org/10.1016/j.jvolgeores.2016.02.031>
26. 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

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27. **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>

28. 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
29. 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
30. **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
31. 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
32. 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
33. 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
34. 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
35. 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., Peteet, 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
36. **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
37. 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

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38. **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
39. **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>
40. **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>
41. 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>
  42. 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., Golledge, 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 Zwartz, 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>
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  44. 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](http://dx.doi.org/10.3402/polar.v33.23672)
  45. #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](http://dx.doi.org/10.1007/s10236-014-0726-5)
  46. &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](http://dx.doi.org/10.1007/s00367-014-0371-5)
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  48. 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](http://dx.doi.org/10.1016/j.quascirev.2013.11.021)
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  50. 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

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54. 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
55. <sup>&</sup>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>
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### 2000 (3 articles)

140. 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
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143. **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.

## 2. Peer-reviewed conference contributions

None

## 3. Monographs

None

## 4. Books and book chapters 2008-2016

The first set listed is peer-reviewed chapters are 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>

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1. 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
2. **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
3. 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
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7. 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

8. 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
9. **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
10. **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
11. **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
12. 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
13. 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
14. **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
15. 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
16. 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
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19. 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
20. **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.
21. **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.
22. Rudels, B., Anderson, L., Eriksson, P., Fahrbach, E., **Jakobsson, M.**, Jones, P.E., Melling, H., Prinsenbergh, 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.

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## 5. Popular science publications including books/presentations 2008-2016

### Books since 2008:

1. Hermelin, O. and **Jakobsson, M.**, 2010, *Azorerna: Nio öar i Atlanten*, 2010, 288 pp, Balkong förlag, ISBN 978-91-85581-35-1.

### Popular Science Articles

1. Mix, A., and **Jakobsson, M.**, and the Petermann-2015 Scientific Party. 2015, Petermann-2015 Expedition Launches International Collaboration in Arctic Science, Witness the Arctic: <https://www.arcus.org/witness-the-arctic/2015/3/article/24490>.
2. **Jakobsson, M.**, 2013, Spelet om Arktis, *Tidskrift i Sjöväsendet*, no 3, 308-316.
3. **Jakobsson, M.**, 2012, Arctic Palaeoclimate and its Extremes, *IASC 2012 Bulletin*, p. 30-33, ISSN: 1654-7594, ISBN: 978-3-9813637-3-9
4. Backman, J., **Jakobsson, M.**, Kleman, J., and Nordlund, S., 2011, *Polarforskning*, SvD Brännpunkt, 5 Sept.
5. **Jakobsson, M.**, 2011, Arctic Palaeoclimate and its Extremes, *IASC 2011 Bulletin*, p. 47-51, ISSN: 1654-7594, ISBN: 978-3-9813637-1-5
6. Macnab, R. and **Jakobsson, M.**, 2009, Mapping the Arctic seabed: Still a work in progress, *Lighthouse, Journal of the Canadian Hydrographic Association*, v. 74.
7. 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.
8. **Jakobsson, M.**, and Backman, J., 2008, Världshavets gåtor, *Geologiskt Forum*, no 57 (March).

### Abstracts and presentations (>100)

#### Five selected invited presentations

1. 2016: *Senioruniversitetet*, Jan 2. An audience of 750 senior citizens. Title (Translated from Swedish): Can the ocean melt the Greenland Ice Sheet?
2. 2015: *RIFO seminar in the Swedish Parliament*, Dec 10. Title (Translated from Swedish): "How much is the ocean capable of melting the Greenland Ice Sheet?"
3. 2015: *The Royal Swedish Academy of Sciences*, Nov 11. Title (Translated from Swedish): "How much is the ocean capable of melting the Greenland Ice Sheet?"
4. 2013: *The Norwegian Royal Academy of Science and Letters*, April 17. Key note speaker. Title (translated from Swedish): "Swedish Arctic Ocean research with icebreaker Oden".
5. 2013: *American Geophysical Union Fall Meeting*, San Francisco, USA. Key note speaker: "Scientific Discoveries in the Central Arctic Ocean Based on Seafloor Mapping Carried out to Support Article 76 Extended Continental Shelf Claims"

## **6. Publicly released maps, compilation data and databases 2008-2016**

1. 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>). **Version 3.0 released December 2012.**
2. 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>). **Version 2.0 released April 2008.**
3. Jakobsson, M., Anderson, R., Hall, J.K., Jacobs, C., Monahan, D., Montoro, H., and Mustapha, A., General Bathymetric Chart of the Oceans (GEBCO): World Ocean Bathymetry, map scale 1:35,000,000, GEBCO Sheet 2006:00.