

## Publication Statistics

83 peer-reviewed papers (79) and book chapters (4)

Citation summary: h-Index 29, i10-index 44. 4266 citations based on 78 peer-reviewed articles and book chapters in Google Scholar:

(scholar.google.com/citations?user=rQP5E4EAAA&hl=en) (Accessed 2019-04-08)

## Peer-Reviewed Papers

---

### 2019

---

1. **O'Regan, M.**, Coxall, H. K., Cronin, T. M., Gyllencreutz, R., Jakobsson, M., Kaboth, S., Löwemark, L., Wiers, S., and West, G. (2019). Stratigraphic occurrences of sub-polar planktic foraminifera in Pleistocene sediments on the Lomonosov Ridge, Arctic Ocean. *Front. Earth Sci.* 7:71. Doi: 10.3389/feart.2019.00071
  2. Preto, P., Stranne, C., Greenwood, S., Jakobsson, M., Näslund, J-O., Sundberg, J., **O'Regan, M.** (*in press*). Geothermal evidence for groundwater flow through Quaternary sediments overlying bedrock aquifers below Lake Vättern, Sweden. *GFF*
  3. Kaboth, Denis, V., Chih-Chieh, S., **O'Regan, M.**, Gyllencruetz, R., Jakobsson, M., and Löwemark, L., (*in press*). Deciphering ~45.000 years of Arctic Ocean lithostratigraphic variability through multivariate statistical analysis. *Quaternary International*. Doi: 10.1016/j.quaint.2018.11.043
  4. 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 deglacial warming in Beringia. *Global Biogeochemical Cycles*, 33, 2–14. Doi: 10.1029/2018GB005969
- 

### 2018 (9)

---

5. **O'Regan, M.**, Coxall, H., Hill, P., Hilton, R., Muschitiello, F., and Swärd, H., (2018). Early Holocene sea level in the Canadian Beaufort Sea constrained by radiocarbon dates from a deep borehole in the Mackenzie Trough, Arctic Canada. *Boreas*. 47(4), 1102-1117. Doi: 10.1111/bor.12335
6. Coxall, H. C., Huck, C., Huber, M., Lear, C. H., **O'Regan, M.**, Sliwinska, K., van de Flierdt, T., de Boer, A. M., Zachos, J. C., Legarda Lisarri, A., Backman, J., (2018). Export of nutrient rich Northern Component Water preceded early Oligocene Antarctic glaciation. *Nature Geoscience*, 11, 190-196. Doi: 10.1038/s41561-018-0069-9
7. Barrientos, N. M., 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*, 236, 240-259. Doi: 10.1016/j.gca.2018.02.036
8. 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* 4 (19). Doi: 10.1007/s41063-018-0055-x
9. Swärd, H., **O'Regan, M.**, Björck, S., Greenwood, S., Kylander, M., Mörth, C-M., Pearce, C., Jakobsson, M., (2018). A chronology of environmental changes in

- the Lake Vättern basin from deglaciation to its final isolation. *Boreas*, 47(2), 609-624. Doi: 10.1111/bor.12288
10. Shephard, G.E., Weirs, S., Bazhenova, E., Perez, L.F. Ramirez, L.M.M., Johansson, C., Jakobsson, M., **O'Regan, M.**, (2018). A North Pole thermal anomaly? Evidence from new and existing heat flow measurements from the central Arctic Ocean. *Journal of Geodynamics*, 118, 166-181. Doi: 10.1016/j.jog.2018.01.017
  11. Kremer, A., Stein, R., Fahl, K., Yang, Z. J., Wiers, S., Matthiessen, J., Forwick, M., Löwemark, L., **O'Regan, M.**, Chen, J., and Snowball, I., (2018). Changes in sea ice cover and ice sheet extent at the Yermak Plateau during the last 160 ka – Reconstructions from biomarker records. *Quaternary Science Reviews*, 182(15), 93-108. Doi: 10.1016/j.quascirev.2017.12.016
  12. Zhang, Z., Yan, Q., Farmer, E. J., Li, C., Ramstein, G., Hughes, T., Jakobsson, M., O'Regan, M., Zhang, R., Tan, N., Contoux, C., Dumas, C., and Guo, C., (2018) Instability of Northeast Siberian ice sheet during glacials, *Clim. Past Discuss.*, <https://doi.org/10.5194/cp-2018-79>, 2018.
  13. Fransner, O., Noormets, R., Chauchan, T., **O'Regan, M.** and Jakobsson, M., (2018). Late Weichselian ice stream configuration and dynamics in Albertini Trough, northern Svalbard margin. *Arktos*, 4(1). Doi: 10.1007/s41063-017-0035-6

---

**2017** (11)

14. **O'Regan, M.**, Backman, J., Barrientos, N., Cronin, T. M., Laura, G., Kirchner, N., Mayer, L. A., Nilsson, J., Noormets, R., Pearce, C., Semilietov, I., Stranne, C., and Jakobsson, M., (2017). De Long Trough: A newly discovered glacial trough on the East Siberian Continental Margin. *Clim. Past*, 13, 1269-1284. Doi: 10.5194/cp-13-1269-2017, 2017.
15. 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*, (Published online August 19, 2017). Doi: 10.1002/2017GL074349
16. 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 Margin, *Clim. Past*, 13, 1097–1110. Doi: 10.5194/cp-13-1097-2017
17. 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*: v. 2017, no. 13, p. 991–1005. Doi: 10.5194/cp-2017-11
18. 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: 10.5194/bg-2016-308.
19. 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*, 13, 1473-1489. Doi: 10.5194/cp-13-1473-2017, 2017
20. 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, 303–316. Doi: 10.5194/cp-13-303-2017
  21. 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, 349–363. Doi: 10.5194/os-13-349-2017
  22. 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. Doi: 10.1016/j.quascirev.2017.03.021
  23. 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*. Doi: 10.1016/j.quaint.2016.11.030
  24. 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*, 32(3), 437-455. Doi: 10.1002/jqs.2938
  25. Sundberg, J., Näslund, J-O., Liljedahl, L.C., Wrafter, J., **O'Regan, M.**, Jakobsson, M., Preto, P., Larson, S. Å., (2017). Thermal data for paleoclimate calculations from boreholes at Lake Vättern. *SKB report P-16-03*. ISSN 1651-4416. 30 p.

---

**2016** (9)

26. 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*, 43, 8703–8712, Doi: 10.1002/2016GL070049.
27. **O'Regan, M.**, Preto, P., Stranne, C., Jakobsson, M., and Koshnurov, A., (2016). Surface heat flow measurements from the East Siberian continental slope and Southern Lomonosov Ridge, Arctic Ocean. *Geochemistry, Geophysics, Geosystems (G<sup>3</sup>)*. Doi: 10.1002/2016GC006284.
28. Stranne, C., and **O'Regan, M.**, (2016). Conductive heat flow and nonlinear geothermal gradients in marine sediments - Observations from Ocean Drilling Program boreholes. *Geo-Marine Letters*, 36(1), 25-33. Doi: 10.1007/s00367-015-0425-3.
29. Jakobsson, M., Nilsson, J., Anderson, L., Backman, J., Björk, G., Cronin, T. M., Kirchner, N., Koshurnikov, A., Mayer, L., Noormets, **O'Regan, M.**, Stranne, C., Ananiev, R., Macho, N. B., Chernykh, D., Coxall, H.K., Eriksson, B., Flodén, T., Gemery, L., Gustafsson, Ö., Jerram, K., Johansson, C., Khortov, A., Mohammad, R., Semiletov, I., (2016). Evidence for an ice shelf covering the

- central Arctic Ocean during the penultimate glaciations. *Nature Communications*, 7. Doi: 10.1038/ncomms10365 (2016).
30. Stranne, C., **O'Regan, M.**, Dickens, G. R., Crill, P., Miller, C., Preto, P., Jakobsson, M., (2016). Dynamic simulations of potential methane release from East Siberian continental slope sediments. *Geochemistry, Geophysics, Geosystems (G<sup>3</sup>)*. Doi: 10.1002/2015GC006119.
  31. Werner, K., Fritz, M., Morata, N., Keil, K., Pavlov, A., Peeken, I., Nikolopoulos, A., Findlay, H. S., Kedra, M., Majaneva, S., Renner, A., Henricks, S., Jacuot, M., Nicolaus, M., **O'Regan, M.**, Sampei, M., and Wegner, C., (2016). Arctic in Rapid Transition: Priorities for the Future of Marine and Coastal Research in the Arctic. *Polar Science*, 10(3), 364-373. Doi: 10.1016/j.polar.2016.04.005
  32. Swärd, H., **O'Regan, M.**, Ampel, L., Flodén, T., Greenwood, S. L., Kylander, M., Mörth, C. M., Preto, P., Jakobsson, M., (2016). Regional deglaciation and postglacial lake development as reflected in a 74 m sedimentary record from Lake Vättern, southern Sweden. *GFF*, 138, 19 p. Doi: 10.1080/11035897.2015.1055510
  33. **O'Regan, M.**, Swärd, H., Preto, P., Greenwood, S. L., Jakobsson, M., (2016). Geotechnical and sedimentary evidence for grounded glacial ice in Southern Lake Vättern. *GFF*, 138, 12 p. Doi: 10.1080/11035897.2015.1055511
- 

**2015** (4)

34. **O'Regan, M.**, Forwick, M., Jakobsson, M., Moran, K., Mosher, D., (2015). Seafloor cratering and sediment remolding at sites of fluid escape. *Geology*, 43(10), 895-898. Doi: 10.1130/G36945.1
  35. Hilton, R. G., Galy, V., Gaillardet, J., Dellinger, M., Bryant, C., **O'Regan, M.**, Gröcke, D. R., Coxall, H., Bouchez, J., Calmels, D., (2015). Erosion of organic carbon in the Arctic as a geological carbon dioxide sink. *Nature*, 524, 84-87. Doi: 10.1038/nature14653
  36. Wegner, C., Bennett, K.E., de Vernal, A., Forwick, M., Fritz, M., Heikkilä, M., Lacka, M., Lantuit, H., Laska, M., Moskalik, M., **O'Regan, M.**, Pawłowska, J., Promińska, A., Rachold, V., Vonk, J. E., Werner, K., (2015). Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. *Polar Research*, 34, 24964. Doi: 10.3402/polar.v34.24964
  37. Greenwood, S. L., **O'Regan, M.**, Swärd, H., Flodén, T., Jakobsson, M., (2015). Ice sheet grounding, retreat and readvance dynamics in the Lake Vättern basin, south-central Sweden. *Boreas*, 44(4), 619-637. Doi: 10.1111/bor.12132
- 

**2014** (5)

38. **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, 23672, Doi: 10.3402/polar.v33.23672
39. 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
40. Alexanderson, H., Backman, J., Cronin, T. M., Funder, S., Ingólfsson, Ó., Jakobsson, M., Landvik, Jon Y., Löwemark, L., Mangerud, J., März, C., Möller,

- P., **O'Regan, M.**, Spielhagen, R. F., (2014). An Arctic perspective on dating Mid-Late Pleistocene environmental history. *Quaternary Science Reviews*, 92, 9-31. Doi: 10.1016/j.quascirev.2013.09.023
41. Löwemark, L., März, C., **O'Regan, M.**, Gyllencreutz, R., (2014). Arctic Ocean Mn-stratigraphy: genesis, synthesis and inter-basin correlation. *Quaternary Science Reviews*, 92, 97-111. Doi: 10.1016/j.quascirev.2013.11.018
42. Jakobsson, M., Andreassen, K., Bjarnadóttir, L. R., Dove, D., Dowdeswell, J. A., England, J. H., Funder, S., Hogan, K., Ingólfsson, Ó., Jennings, A., Larsen, N. K., Kirchner, N., Landvik, J. Y., Mayer, L., Mikkelsen, N., Möller, P., Niessen, F., Nilsson, J., **O'Regan, M.**, Polyak, L., Nørgaard-Pedersen, N., Stein, R., (2014). Arctic Ocean glacial history. *Quaternary Science Reviews*, 92, 40-67. Doi: 10.1016/j.quascirev.2013.07.033
- 

#### 2013

43. Birch, H., Coxall, H. K., Pearson, P. N., Kroon, D., **O'Regan, M.**, (2013). Planktonic foraminifera stable isotopes and water column structure: Disentangling ecological signals. *Marine Micropaleontology*, 101, 127-145. Doi: 10.1016/j.marmicro.2013.02.002.
- 

#### 2012

44. Kirshner, A. E., Anderson, J. B., Jakobsson, M., **O'Regan, M.**, Majewski, W., Nitsche, F. O., (2012). Post-LGM deglaciation in Pine Island Bay, West Antarctica. *Quaternary Science Reviews*, 38(30), 11–26. Doi: 10.1016/j.quascirev.2012.01.017
45. Löwemark, L., **O'Regan, M.**, Hanebuth, T. J. J., Jakobsson, M., (2012). Late Quaternary spatial and temporal variability in Arctic deep-sea bioturbation and its relation to Mn cycles. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 365–366, 192–208. Doi: 10.1016/j.palaeo.2012.09.028
46. Jakobsson M, Anderson J. B., Nitsche, F. Gyllencreutz, R. Kirchner A., Kirchner N., **O'Regan M.**, Mohammad R., Eriksson B., (2012). Ice sheet dynamics inferred from glacial morphology of the central Pine Island Bay Trough, West Antarctica. *Quaternary Science Reviews*, 38(30), 1–10. Doi: 10.1016/j.quascirev.2011.12.017
- 

#### 2011

47. **O'Regan, M.**, Williams, C. J., Frey, K. E., Jakobsson, M., (2011). A synthesis of the long-term paleoclimatic evolution of the Arctic. *Oceanography* 24(3), 66–80. Doi: 10.5670/oceanog.2011.57.
48. **O'Regan, M.**, (2011). Late Cenozoic paleoceanography of the central Arctic Ocean. *IOP Conf. Series: Earth and Environmental Science* 14, doi: 10.1088/1755-1315/14/1/012002
49. Jakobsson, M., Anderson, J. B., Nitsche, F., Dowdeswell, J., Gyllencreutz, R., Kirchner, N., Mohammad, R., **O'Regan, M.**, Alley, R. B., Sridhar, A., Eriksson, B., Kirchner, A., Fernandez, R., Stollendorf, T., Minzoni, R., Majewski, W., (2011). Geological record of ice shelf break-up and grounding line retreat, Pine Island Bay, West Antarctica. *Geology*, 39(7), 691-694. Doi: 10.1130/G32153.1
- 

#### 2010 (11)

50. **O'Regan, M.**, Moran, K., Baxter, C. D. P., Cartwright, J., Vogt, C., Kölling, M., (2010). Towards ground truthing exploration in the central Arctic Ocean: a

- Cenozoic compaction history from the Lomonosov Ridge. *Basin Research*, 22, 215-235. Doi: 10.1111/j.1365-2117.2009.00403.x
51. **O'Regan, M.**, St. John, K., Moran, K., Backman, K., King, J., Haley, B.A., Jakobsson, M., Frank, M., Röhl, U., (2010). Plio-Pleistocene trends in ice rafted debris on the Lomonosov Ridge. *Quaternary International*, 219, 168-176. Doi: 10.1016/j.quaint.2009.08.010
  52. **O'Regan, M.**, and Moran, K., (2010). Deep-water methane hydrates in the Arctic Ocean: Re-assessing the significance of a shallow BSR on the Lomonosov Ridge. *Journal of Geophysical Research - Solid Earth*, 115. B05102, Doi: 10.1029/2009JB006820
  53. **O'Regan, M.**, Jakobsson, M., Kirchner, N., (2010). Glacial geological implications of overconsolidated sediments on the Lomonosov Ridge and Yermak Plateau. *Quaternary Science Reviews*, 29 (25-26), 3532-3544. Doi: 10.1016/j.quascirev.2010.09.009
  54. Dowdeswell, J. A., Jakobsson, M., Hogan, K. A., **O'Regan, M.**, Backman, J., Evans, J., Hell, B., Löwemark, L., Marcussen, C., Noormets, R., Ó Cofaigh, C., Sellén, E., Sölvsten, M., (2010). High-resolution geophysical observations of the Yermak Plateau and northern Svalbard margin: implications for ice-sheet grounding and deep-keeled icebergs. *Quaternary Science Reviews*, 29 (25-26), 3518-3531. Doi: 10.1016/j.quascirev.2010.06.002
  55. Hanslik, D., Jakobsson, M., Backman, J., Björck, S., Sellén, E., **O'Regan, M.**, Fornaciari, E., Skog, G., (2010). Pleistocene Arctic Ocean sea ice and deep water isolation times. *Quaternary Science Reviews*, 29 (25-26), 3430-3441. Doi: 10.1016/j.quascirev.2010.06.011
  56. Jakobsson, M., Nilsson, J., **O'Regan, M.**, Backman, J., Löwemark, L., Dowdeswell, J. A., Colleoni, F., Marcussen, C., Anderson, L., Björk, G., Darby, D., Eriksson, B., Hanslik, D., Hell, B., Mayer, L., Polyak, L., Sellén, E., Wallin, Å., (2010). An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. *Quaternary Science Reviews*, 29 (25-26), 3505-3517. Doi: 10.1016/j.quascirev.2010.03.015
  57. Polyak, L., Alley, R. B., Andrews, J. T., Brigham-Grette, J., Cronin, T. C., Darby, D., Dyke, A. S., Fitzpatrick, J. J., Funder, S., Holland, M., Jennings, A. E., Miller, G. H., **O'Regan, M.**, Saville, J., Serreze, M., St. John, K., White, J. W. C., Wolff, E., (2010). History of sea ice in the Arctic. *Quaternary Science Reviews*, 29 (15-16), 1757-1778. Doi: 10.1016/j.quascirev.2010.02.010
  58. Roberts, A. P., Florindo, F., Larrasoana, J. C., **O'Regan, M.**, Zhao, X., (2010). Complex polarity pattern at the former Plio-Pleistocene global stratotype section at Vrica (Italy): remagnetization by magnetic iron sulphides. *Earth and Planetary Science Letters*, 292(1-2), 98-111
  59. Sellén, E., **O'Regan, M.**, Jakobsson, M., (2010). Spatial and temporal Arctic Ocean depositional regimes: a key to the evolution of ice drift and current patterns. *Quaternary Science Reviews*, 29 (25-26), 3644-3664. Doi: 10.1016/j.quascirev.2010.06.005
  60. Sharma, M. S. R., **O'Regan, M.**, Baxter, C. D. P., Moran, K., Vaziri, H., Narayanasamy, R., (2010). Empirical relationships between strength and geophysical properties for weakly cemented formations. *Journal of Petroleum Science and Engineering*, 72(1-2), 134-142. Doi:

10.1016/j.petro.2010.03.011

---

2008 (8)

61. **O'Regan, M.**, King, J., Backman, J., Jakobsson, M., Pälike, H., Moran, K., Heil, C., Sakamoto, T., Cronin, T. M., Jordan, R. W., (2008). Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge. *Paleoceanography*, 23, PA1S19. Doi:10.1029/2007PA001551
62. **O'Regan, M.**, Moran, K., Sangiorgi, F., Brinkhuis, H., Backman, J., Jakobsson, M., Pockalny, R., Skelton, A., Stickley, C., Koç, N., Brumsack, H., Willard, D., (2008). Mid-Cenozoic tectonic and paleoenvironmental setting of the central Arctic Ocean. *Paleoceanography*, 23, PA1S20. Doi:10.1029/2007PA001559
63. **O'Regan, M.**, Sakamoto, T., King, J., (2008). Data Report: Regional stratigraphic correlation and a revised composite depth scale for IODP Expedition 302. *Proc. IODP, Sci. Results*, 302. Doi:10.2204/iodp.proc.302.202.2008
64. Backman, J., Jakobsson, M., Frank, M., Sangiorgi, F., Brinkhuis, H., Stickley, C., **O'Regan, M.**, Løvlie, R., Pälike, H., Spofforth, D., Gattacecca, J., Moran, K., (2008). Age model and core-seismic integration for the Cenozoic ACEX sediments from the Lomonosov Ridge. *Paleoceanography*, 23, PA1S03. Doi:10.1029/2007PA001476
65. Cronin, T., Eynaud, F., Smith, S., **O'Regan, M.**, King, J., (2008). Quaternary paleoceanography of the central Arctic based on IODP ACEX 302 foraminiferal assemblages. *Paleoceanography*, 23, PA1S18. Doi:10.1029/2007PA001484
66. Frank, M., Backman, J., Jakobsson, M., Moran, K., **O'Regan, M.**, King, J., Haley, B. A., Kubik, P. W., Garbe-Schönberg, D., (2008). Beryllium isotopes in central Arctic Ocean sediments over the past 12.4 million years: Stratigraphic and paleoceanographic implications. *Paleoceanography*, 23, PA1S02. Doi:10.1029/2007PA001478
67. Pälike, H., Spofforth, D., **O'Regan, M.**, Gattacecca, J., (2008). Orbital scale variations and time scales from the Arctic Ocean. *Paleoceanography*, 23, PA1S10. Doi:10.1029/2007PA001490
68. Sangiorgi, F., Brumsack, H.-J., Willard, D., Brinkhuis, H., Schouten, S., Stickley, C., **O'Regan, M.**, Reichert, G.-J., Sinninghe Damste, J.-S., (2008). A 25 million year gap in the central Arctic record at the Greenhouse-Icehouse transition: Looking for clues. *Paleoceanography*, 23, PA1S04. Doi:10.1029/2007PA001477

---

2007 (5)

69. **O'Regan, M.**, and Moran, K., (2007). Compressibility, permeability, and stress history of sediments from Demerara Rise. In Mosher, D.C., Erbacher, J., and Malone, M.J. (Eds.), *Proc. ODP, Sci. Results*, 207: College Station, TX (Ocean Drilling Program), 1–35. Doi:10.2973/odp.proc.sr.207.114.2007
70. **O'Regan, M.**, (2007). Data Report: High-resolution bulk density, dry density and porosity records from the Arctic Coring Expedition, IODP, 302. *Proc. IODP, Sci. Results*, 302. Doi:10.2204/iodp.proc.302.201.2008
71. **O'Regan, M.**, (2007). Data report: log-adjusted depth scales for Cretaceous black shale deposits from Demerara Rise. In Mosher, D.C., Erbacher, J., and Malone, M.J. (Eds.), *Proc. ODP, Sci. Results*, 207: College Station, TX (Ocean

- Drilling Program), 1–29. Doi:10.2973/odp.proc.sr.207.113.2007
72. Jakobsson, M., Backman, J., Rudels, B., Nycander, J., Frank, M., Mayer, M., Jokat, W., Sangiorgi, F., **O'Regan, M.**, Brinkhuis, H., King, J., Moran, K., (2007). The early Miocene onset of a ventilated circulation regime in the Arctic Ocean. *Nature*, 447, 986-990. Doi:10.1038/nature05924
73. Moran, K., Altmann, V., **O'Regan, M.**, Ashmankas, C., (2007). Acoustic compressional wave velocity as a predictor of glacio-marine sediment grain size. *Geotechnical Testing Journal*, 30(4). Doi: 10.1520/GTJ100228
- 

**2006 (6)**

---

74. Brinkhuis, H., Schouten, S., Collinson, M. E., Sluijs, A., Sinninghe Damsté, J. S., Dickens, G. R., Huber, M., Cronin, T. M., Onodera, J., Takahashi, K., Bujak, J. P., Stein, R., van der Burgh, J., Eldrett, J. S., Harding, I. C., Lotter, A. F., Sangiorgi, F., van Konijnenburg-van Cittert, H., de Leeuw, J. W., Matthiessen, J., Backman, J., Moran, K., IODP **Expedition 302 Scientists**, (2006). Episodic fresh surface waters in the Eocene Arctic Ocean. *Nature*, 441: 606–609. Doi:10.1038/nature04692
75. 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
76. 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
77. Moran, K., Backman, J., Brinkhuis, H., Clemens, S. C., Cronin, T., Dickens, G. R., Eynaud, F., Jakobsson, M., Jordan, R. W., Kaminski, M. A., King, J., Koc, N., Krylov, A., Martinez, N., Matthiessen, J., McInroy, D., Moore, T. C., Onodera, J., **O'Regan, M.**, Pälike, H., Rea, B., Rio, D., Sakamoto, T., Smith, D. C., Stein, R., St John, K., Suto, I., Suzuki, N., Takahashi, K., Watanabe, M., Yamamoto, M., Farrell, J., Frank, M., Kubik, P., Jokat, W., Kristoffersen, Y., (2006). The Cenozoic palaeoenvironment of the Arctic Ocean. *Nature*, 441, 601-605. Doi:10.1038/nature04800
78. Pagani, M., Pendentchouk, N., Huber, M., Sluijs, A., Schouten, S., Brinkhuis, H., Sinninghe-Damste, J.S., Dickens, G.R., IODP **Expedition 302 Scientists**, (2006). The Arctic's hydrological response to global warming during the Paleocene–Eocene thermal maximum. *Nature*, 442, 671–675. Doi:10.1038/nature05043
79. Sluijs, A. Schouten, S., Pagani, M., Woltering, M., Brinkhuis, H., Sinninghe Damsté, J.S., Dickens, G.R., Huber, M., Reichart, G.-J., Stein, R., Matthiessen, J., Lourens, L.J., Pendentchouk, N., Backman, J., Moran, K., IODP **Expedition 302 Scientists**, (2006). Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. *Nature*, 441, 610-613. Doi:10.1038/nature04668
- 

**Book Chapters**

---



1. Jakobsson, M, and **O'Regan, M.**, (2016). Pockmarks on the Mendeleev Rise, central Arctic Ocean. . In DOWDESWELL, J.A., CANALS, M., JAKOBSSON, M., TODD, B.J., DOWDESWELL, E.K. & HOGAN, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs.
2. Jakobsson, M., **O'Regan, M.**, Gyllencreutz, R., and Floden, T., (2016). Seafloor terraces and semi-circular depressions related to groundwater discharge in Stockholm Archipelago, Baltic Sea. In DOWDESWELL, J.A., CANALS, M., JAKOBSSON, M., TODD, B.J., DOWDESWELL, E.K. & HOGAN, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs.
3. Jakobsson, M, and **O'Regan, M.**, (2016). Deep iceberg ploughmarks in the central Arctic Ocean. In DOWDESWELL, J.A., CANALS, M., JAKOBSSON, M., TODD, B.J., DOWDESWELL, E.K. & HOGAN, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs.
4. Jakobsson, M., **O'Regan, M.**, Greenwood, S. L., Floden, T., Swärd, H., Björk, S., Skelton, A., (2016). Postglacial tectonic structures and mass wasting in Lake Vättern, southern Sweden. In DOWDESWELL, J.A., CANALS, M., JAKOBSSON, M., TODD, B.J., DOWDESWELL, E.K. & HOGAN, K.A. (eds) Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient. Geological Society, London, Memoirs.

---

#### **Technical Reports, Cruise Reports and other Publications**

---

1. Jakobsson, M., Koshurnikov, A., **SWERUS-C3 Scientific Party**, (2015). Cruise Report - SWERUS-C3, 2014, Leg 2. University of Stockholm, Stockholm.
2. **O'Regan, M.**, Hendry, K., Pienkowski, A., Dove, D., März, C., Müller, J., Werner, K., (2015). Paleoceanographic time series from Arctic sediments. Arctic Research Priority Sheet. International Arctic Research Center, Fairbanks, Alaska. Doi:10.2312/ART.0329.65230
3. Werner, K., Müller, J., Pienkowski, A., März, C., **O'Regan, M.**, Hendry, K., (2015). Proxy calibration and evaluation - paleo-reconstruction and biological archives: decade to millennium. Arctic Research Priority Sheet. International Arctic Research Center, Fairbanks, Alaska. Doi: 10.2312/ART.0330.13477
4. Forwick, M., Dijkstra, N., Clea, F., Faust, J. C., Franek, P., Iversen, S., Jernas, P. E., Knies, J., **O'Regan, M.**, Preto, P., Sauer, S., Velle, J., H., (2013). Cruise report - marine-geological cruise to north Norwegian fjords and the continental shelf off northern Norway - on R/V *Helmer Hanssen*. April 15<sup>th</sup>-24<sup>th</sup>, 2013.
5. Anderson, J. B., Jakobsson, M. and **Scientific Party**, (2010). Cruise Report - Oden Southern Ocean 0910 OSO0910. University of Stockholm, Stockholm.
6. Wegner, C., Frey, K., Forest, A., Forwick, M., Mathis, J., Michel, C., Nikolopoulos, A., **O'Regan, M.**, Peeken, I., Reigstad, M., (2010). Arctic in Rapid Transition (ART) Science Plan, Arctic Ocean Sciences Board / International Arctic Science Committee (AOSB/IASC). <http://aosb.arcticportal.org/art.html>

7. Backman, J., Moran, K., McInroy, D. B., Mayer, L. A., and the **Expedition 302 Scientists** (2006). *Proc. IODP, 302*: Edinburgh (Integrated Ocean Drilling Program Management International, Inc.). [doi:10.2204/iodp.proc.302.2006](https://doi.org/10.2204/iodp.proc.302.2006)
8. Moran, K., Backman, J., and the IODP **Expedition 302 Science Party**, (2006). The Arctic Coring Expedition (ACEX) recovers a Cenozoic history of the Arctic Ocean. In Burger, R., and Fujioka, K. (Eds.), *The Impact of the Ocean Drilling Program. Oceanography*, 19(4):162–167.
9. **O'Regan, M.**, (2006). Temperature and fluid flow at Nankai. *JOI/USSAC Newsletter*, Fall 2006.
10. Backman, J., Moran, K., McInroy, D., and the IODP **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*, 1:12–17. [doi:10.2204/iodp.sd.1.02.2005](https://doi.org/10.2204/iodp.sd.1.02.2005)
11. Backman, J., Moran, K., Evans, D., and the **Expedition 302 Project Team**, (2004). ACEX—Arctic Coring Expedition: paleoceanographic and tectonic evolution of the central Arctic Ocean. *IODP Scientific Prospectus, 302*. [doi:10.2204/iodp.sp.302.2004](https://doi.org/10.2204/iodp.sp.302.2004)
12. Erbacher, J., Mosher, D. C., Malone, M. J., and the **ODP 207 Scientific Party** (2004). *Proceedings of the Ocean Drilling Program, Initial Reports, 207*: College Station, TX (Ocean Drilling Program). [doi:10.2973/odp.proc.ir.207.2004](https://doi.org/10.2973/odp.proc.ir.207.2004)
13. Erbacher, J., Mosher, D. C., Malone, M. and the **ODP 207 Scientific Party**, (2004). Drilling probes past carbon cycle perturbations on the Demerara Rise. *EOS*, 85(6), 57-68.
14. Moran, K., Backman, J., and the **ACEX 302 Scientific Party**, (2004). On top of the world with Expedition 302. *JOI/USSAC Newsletter*, Fall 2004.