

Publication Statistics

79 peer-reviewed papers (75) and book chapters (4)

Citation summary: h-Index 28, i10-index 43. 4039 citations based on 77 peer-reviewed articles and book chapters in Google Scholar:

(scholar.google.com/citations?user=rQP5E4EAAA&hl=en) (Accessed 2018-08-28)

Peer-Reviewed Papers

2018 (9)

1. 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., (*in open review*). Instability of Northeast Siberian ice sheet during glacials, *Clim. Past Discuss.*, <https://doi.org/10.5194/cp-2018-79>, 2018.
2. **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*. Doi: 10.1111/bor.12335
3. 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
4. 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
5. 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
6. 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*. Doi: 10.1111/bor.12288
7. 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
8. 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
9. 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

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10. **O'Regan, M.**, Backman, J., Barrientos, N., Cronin, T. M., Laura, G., Kirchner, N., Mayer, L. A., Nilsson, J., Noormets, R., Pearce, C., Semiletov, 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.
11. 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
12. 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
13. 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*: v. 2017, no. 13, p. 991–1005. Doi: 10.5194/cp-2017-11
14. 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.
15. 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
16. 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
17. 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
18. 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
19. 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

20. 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

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21. 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.
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23. 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.
24. 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).
25. 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 (G³)*. Doi: 10.1002/2015GC006119.
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27. 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*, 1–19. Doi: 10.1080/11035897.2015.1055510
28. **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*, 1–12. Doi: 10.1080/11035897.2015.1055511
29. Sundberg, J., Näslund, J-O., Liljedahl, L.C., Wrafter, J., **O'Regan, M.**, Jakobsson, M., Preto, P., Larson, S. Å., (2016). Thermal data for paleoclimate calculations from boreholes at Lake Vättern. *SKB report P-16-03*. ISSN 1651-

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31. 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
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33. 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

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36. 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
37. 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
38. 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

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- sheet grounding and deep-keeled icebergs. *Quaternary Science Reviews*, 29 (25-26), 3518-3531. Doi: 10.1016/j.quascirev.2010.06.002
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52. 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
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