

Publication Statistics

123 peer-reviewed papers (119) and book chapters (4)

Citation summary: h-Index 41, i10-index 86 (based on 120 documents, 01-08-2024)

Peer-Reviewed Papers

2024 (5)

1. Razmjooei, M. J., and **O'Regan, M.**, (*in press*). Improved paired light and scanning electron microscope imaging technique for identifying nanofossils in Arctic sediments. *Geobios*.
2. Chen, N.-C., **O'Regan, M.**, Hong, W.-L., Andrén, T., Rodellas, V., Roth, F., Mörtz, 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>
3. Jakobsson, M., **O'Regan, M.**, Sköld, M., Jonsson, P., and 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*, 279, doi: 10.1016/j.csr.2024.105297
4. Lepp, A. P., Miller, L. E., Anderson, J. B., **O'Regan, M.**, Winsborrow, M. C. M., Smith, J. A., Hillenbrand, C.-D., Wellner, J. S., Prothro, L. O., and Podolskiy, E. A., (2024). Insights into glacial processes from micromorphology of silt-sized sediment, *The Cryosphere*, 18, 2297–2319, doi:10.5194/tc-18-2297-2024
5. Pérez, L.Z., Knutz, P.C., Hopper, J.R., Seidenkrantz, M.S., **O'Regan, M.**, and Jones, S., (2024). NorthGreen: unlocking records from sea to land in Northeast Greenland. *Scientific Drilling*, 33, (1), 33-46, doi:10.5194/sd-33-33-2024, 2024.

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6. Vermassen, F., **O'Regan, M.**, de Boer, A., Schenk, F., Razmjooei, M., West, G., Cronin, T., 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
7. Detlef, H., **O'Regan, M.**, Stranne, C., Jensen, M.M., Glasius, M., Cronin, T. M., Jakobsson, M., and Pearce, C. (2023). Seasonal sea ice in the Arctic's last ice area during the Early Holocene. *Communications Climate and Environment*, 4, 86, doi: 10.1038/s43247-023-00720-w
8. Razmjooei, M. J., Henderiks, J., Coxall, H., Baumann, H.-K., Vermassen, F., Jakobson, M., and **O'Regan, M.**, (2023). Revision of the Quaternary calcareous nanofossil biochronology of Arctic Ocean sediments. *Quaternary Science Reviews*, 321, 108382. doi: 10.1016/j.quascirev.2023.108382
9. West, G., Kaufman, D. S., Jakobsson, M., and **O'Regan, M.**, (2023). Amino acid racemization in *Neoglobobulimina papyroderma* and *Cibicides wuellerstorfi* from the Arctic Ocean and its implications for age models, *Geochronology*, 5, 285–299, doi: 10.5194/gchron-5-285-2023
10. Sicard, M., de Boer, A. M., Coxall, H. K., Koenigk, T., Karami, M. P., Jakobsson, M., and **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.org/10.1029/2023GL104782

11. Farmer, J. R., Keller, K., Poirier, R. K., Dwyer, G. S., Schaller, M. F., Coxall, H. K., **O'Regan, M.**, and Cronin, T. M., (2023). A 600-kyr reconstruction of deep Arctic seawater $\delta^{18}\text{O}$ from benthic foraminiferal oxygen isotopes and ostracode Mg/Ca paleothermometry. *Climate of the Past*, 19, 555–578, doi: 10.5194/cp-19-555-2023
12. Nilsson, J., van Dongen, E., Jakobsson, M., **O'Regan, M.**, and Stranne, C. (2023). Hydraulic suppression of basal glacier melt in sill fjords. *The Cryosphere*, 17, 2455–2476, doi:10.5194/tc-17-2455-2023
13. Singh, A., **O'Regan, M.**, Coxall, H., Forwick, M., and Löwemark, L., (2023). Exploring late Pleistocene bioturbation on Yermak Plateau to access sea-ice conditions and primary productivity through the Ethological Ichno Quotient. *Scientific Reports*, 13, 17416, doi:10.1038/s41598-023-44295-0

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14. West, G., Nilsson, A., Geels, A., Jakobsson, M., Moros, M., Muschitiello, F., Pearce, C., Snowball, I., and **O'Regan, M.**, (2022). Late Holocene paleomagnetic secular variation in the Chukchi Sea, Arctic Ocean. *Geochemistry, Geophysics, Geosystems*, 23, doi: 10.1029/2021GC010187
15. Swärd, H., Andersson, P., Hilton, R., Vogt, C., and **O'Regan, M.**, (2022). Mineral and isotopic (Nd, Sr) signature of fine-grained deglacial and Holocene sediments from the Mackenzie Trough, Arctic Canada. *Arctic, Antarctic, and Alpine Research*, 54:1, 346-367, doi: 10.1080/15230430.2022.2096425
16. Cronin, T.M., Olds, B.M., Regnier, A.M., **O'Regan, M.**, Gemery, L., Detlef, H., Pearce, C., and Jakobsson, M., (2022). Holocene paleoceanography and glacial history of Lincoln Sea, Ryder Glacier, Northern Greenland, based on foraminifera and ostracodes. *Marine Micropaleontology*. V. 175, 102158, doi: 10.1016/j.marmicro.2022.102158
17. Alatarvas, R.M.H., **O'Regan, M.**, and Strand, K. O., (2022). Heavy mineral assemblages of the De Long Trough and southern Lomonosov Ridge glacial deposits: implications for the East Siberian Ice Sheet extent. *Climate of the Past*, 18, 1867–1881, doi:10.5194/cp-18-1867-2022
18. Stranne, C., **O'Regan, M.**, Hong, W-L., Bruchert, V., Ketzer, M., Thornton, B., and 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
19. Jennings, A., Reilly, B., Andrews, J., Hogan, K., Walczak, M., Jakobsson, M., Stoner, J., Mix, A., Nichols, K. W., **O'Regan, M.**, Prins, M. A., and 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, doi: 10.1016/j.quascirev.2022.107460

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20. **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., and Jakobsson, M., (2021).

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21. Vermassen, F., **O'Regan, M.**, West, G., Cronin, T., and Coxall, H., (2021). Pleistocene biostratigraphy in the central Arctic Ocean – testing micro- and nanofossil bioevent correlations, *Arctic, Antarctic, and Alpine Research*, 53:1, 309-323, doi:10.1080/15230430.2021.1988356
 22. West, G., Alexanderson, H., Jakobsson, M., and **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, doi:10.1016/j.quascirev.2021.107082
 23. Stranne, C., Nilsson, J., Ulfso, A., **O'Regan, M.**, Coxall, H., Meire, L., Muchowski, J., Mayer, L. A., Bruchert, V., Fredriksson, J., Chawarski, J., West, G., Thornton, B., Weidner, E., and Jakobsson, M., (2021). Amplified Climate Sensitivity of Northern Greenland Fjords through Sea-Ice Damming. *Communications Climate and Environment*, 2, 70, doi:10.1038/s43247-021-00140-8 IV
 24. Detlef, H., Reilly, B., Jennings, A., Mørk Jensen, M., **O'Regan, M.**, Glasius, M., Olsen, J., Jakobsson, M., and 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
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27. **O'Regan, M.**, Backman, J., Fornaciari, E., Jakobsson, M., and West, G. (2020). Calcareous nanofossils anchor chronologies for Arctic Ocean sediments back to 500 ka. *Geology*, 48 (11), 1115–1119. doi.org/10.1130/G47479.1
 28. Jakobsson, M., Mayer, L., Nilsson, J., Stranne, C., Calder, B., **O'Regan, M.**, Mix, A., and Ryder19 Shipboard Scientific Party, (2020). Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. *Communications Earth and Environment*, 1:45. doi:10.1038/s43247-020-00043-0
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 32. Tessin, A., Maerz, C., Kedra, M., Morata, N., Nairn, M., Matthiessen, J., **O'Regan, M.**, and Peeken, I., (2020). Benthic phosphorus cycling within the Eurasian marginal sea ice zone. *Phil. Trans. R. Soc. A*, v. 378, issue 2181, doi:10.1098/rsta.2019.0358
 33. Jakobsson, M., **O'Regan, M.**, Mörtz, 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*, 8, 1–15, doi:10.5194/esurf-8-1-2020
 34. Wiers S, Snowball I, **O'Regan M**, Pearce C and Almqvist B (2020). The Arctic Ocean Manganese Cycle, an Overlooked Mechanism in the Anomalous Palaeomagnetic Sedimentary Record. *Front. Earth Sci.* 8:75. doi: 10.3389/feart.2020.00075
 35. Perez, L., Jakobsson, M., Funck, T., Andresen, K. J., Nielsen, T., **O'Regan, M.**, and Mork, F. (2020). Late Quaternary sedimentary processes in the central Arctic Ocean inferred from geophysical mapping. *Geomorphology*, 369, 107309. doi:10.1016/j.geomorph.2020.107309
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