

## **Ian Salter**

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## **Research interests**

The role of phytoplankton ecology in regulating biogeochemical fluxes.

Carbon and nutrient biogeochemistry monitoring.

The application of environmental DNA to biodiversity monitoring and fisheries management.

## **Professional Information**

Faroese representative GOA-ON (Global Ocean Acidification Observation Network)

Faroese representative CAFF-CBMP (Circumpolar Biodiversity Monitoring Group)

Faroese Ambassador for BioGeoSCAPES

Member of ICES WGPME (Phytoplankton and Microbial Ecology)

Member of ICES WGIMT (Integrated Molecular and Morphological Taxonomy)

Member of NOMP (Nordic Marine Phytoplankton Working Group)

## **Employment**

### **Senior Researcher**

Havstovan - Faroe Marine Research Institute  
Pure Faroe Islands  
Faroe Islands  
1 Feb 2017 → present

### **Tenured Professor**

Sorbonne Universités, UPMC Univ. Paris 06, CNRS, Laboratoire d'Océanographie Microbienne  
France  
1 Jan 2017 → 1 Jan 2018

### **Tenured Research Scientist**

Alfred Wegener Institute - Helmholtz Centre for Polar and Marine Research  
Germany  
1 Jan 2014 → 1 Jan 2017

### **Visiting Scholar**

Old Dominion University  
United States  
1 Jan 2013 → 1 Jan 2014

### **Tenured Professor**

Sorbonne Universités, UPMC Univ. Paris 06, CNRS, Laboratoire d'Océanographie Microbienne  
France  
1 Jan 2009 → 1 Jan 2014

### Post-doctoral fellow

Sorbonne Universités, UPMC Univ. Paris 06, CNRS, Laboratoire d'Océanographie Microbienne  
France  
1 Jan 2008 → 1 Jan 2009

### Post-doctoral fellow

National Oceanography Centre, Southampton  
United Kingdom  
1 Jan 2007 → 1 Jan 2008

## Qualifications

PhD, Particle flux in the North Atlantic and Southern Ocean, National Oceanography Centre, Southampton  
2003 → 2007

Bachelor, Chemistry with Oceanography (Hons), Department of Earth and Ocean Sciences, University of Liverpool,  
Liverpool  
1999 → 2002

## Research Output – Peer Reviewed

1. Cardozo-Mino, MG, Salter, I, Nöthig, E-M, Metfies, K, Ramondenc, S, Wekerle, C, Krumpfen, T, Boetius, A & Bienhold, C 2023, 'A decade of microbial community dynamics on sinking particles during high carbon export events in the eastern Fram Strait', *Frontiers in Marine Science*, vol. 10, 1173384, pp. 1-22. <https://doi.org/10.3389/fmars.2023.1173384>
2. Salter, I, Bauerfeind, E, Fahl, K, Iversen, M, Lalande, C, Ramondenc, S, Appen, W-JV, Wekerle, C & Nöthig, EM 2023, 'Interannual variability (2000–2013) of mesopelagic and bathypelagic particle fluxes in relation to variable sea ice cover in the eastern Fram Strait', *Frontiers in Earth Science*, vol. 11, pp. 1-25. <https://doi.org/10.3389/feart.2023.1210213>
3. Breton, E, Savoye, N, Rimmelin-Maury, P, Sautour, B, Goberville, E, Lheureux, A, Cariou, T, Ferreira, S, Agogué, H, Alliouane, S, Aubert, F, Aubin, S, Berthebaud, E, Blayac, H, Blondel, L, Boulart, C, Bozec, Y, Bureau, S, Caillo, A, Cauvin, A, Cazes, J-B, Chasselin, L, Claquin, P, Conan, P, Cordier, M-A, Costes, L, Crec'hriou, R, Crispi, O, Crouvoisier, M, David, V, Amo, YD, Lary, HD, Delebecq, G, Devesa, J, Domeau, A, Durozier, M, Emery, C, Feunteun, E, Fauchot, J, Gentilhomme, V, Geslin, S, Giraud, M, Grangeré, K, Grégori, G, Grossteffan, E, Gueux, A, Guillaudeau, J, Guillou, G, Harrewyn, M, Jolly, O, Jude-Lemeilleur, F, Salter, I & Seront, L 2023, 'Data quality control considerations in multivariate environmental monitoring: experience of the French coastal network SOMLIT', *Frontiers in Marine Science*, vol. 10. <https://doi.org/10.3389/fmars.2023.1135446>
4. Mikalsen, S-O, í Hjølum, J, Salter, I, Djurhuus, A & í Kongsstovu, S 2023, 'The need of decoding life for taking care of biodiversity and the sustainable use of nature in the Anthropocene: a Faroese perspective', *EcoEvoRxiv*. <https://doi.org/10.24072/pci.genomics.100291>
5. Wietz, M, Metfies, K, Bienhold, C, Wolf, C, Salter, I, Janssen, F & Boetius, A 2022, 'Impact of preservation method and storage period on ribosomal metabarcoding of marine microbes: Implications for remote automated samplings', *Frontiers in Microbiology*, vol. 13, 999925, pp. 1-11. <https://doi.org/10.3389/fmicb.2022.999925>
6. Matras, U, Salter, I, Larsen, KMH, Gaard, E & Steingrund, P 2022, 'Relationship between plankton dynamics and growth of the long-lived clam *Arctica islandica* on the Faroe shelf', *Frontiers in Marine Science*, vol. 9, 822343, pp. 1-19. <https://doi.org/10.3389/fmars.2022.822343>
7. Højgaard, D-P, Salter, I & í Homrum, E 2022, 'Prevalence of *Kudoa thyrssites* (Myxozoa, Multivalvulida) in Atlantic Mackerel, *Scomber scombrus* L., in the Vicinity of the Faroe Islands', *Frontiers in Marine Science*, vol. 9, 818507, pp. 1-10. <https://doi.org/10.3389/fmars.2022.818507>, <https://doi.org/10.3389/fmars.2022.818507>
8. Wietz, M, Bienhold, C, Metfies, K, Torres-valdes, S, von Appen, W-J, Salter, I & Boetius, A 2021, 'The polar night shift: seasonal dynamics and drivers of Arctic Ocean microbiomes revealed by autonomous sampling', *ISME Communications*, vol. 1, 76 (2021), pp. 1-12. <https://doi.org/10.1038/s43705-021-00074-4>
9. von Appen, W-J, Waite, AM, Bergmann, M, Bienhold, C, Boebel, O, Bracher, A, Cisewski, B, Hagemann, J, Hoppema, M, Iversen, MH, Konrad, C, Krumpfen, T, Lochthofen, N, Metfies, K, Niehoff, B, Nöthig, E-M, Purser, A, Salter, I, Schaber, M, Scholz, D, Soltwedel, T, Torres-Valdés, S, Wekerle, C, Wenshofer, F, Wietz, M & Boetius, A 2021, 'Sea-ice derived meltwater stratification slows the biological carbon pump: results from continuous observations', *Nature Communications*, vol. 12, 7309, pp. 1-16. <https://doi.org/10.1038/s41467-021-26943-z>
10. Fadeev, E, Rogge, A, Ramondenc, S, Nöthig, E-M, Wekerle, C, Bienhold, C, Salter, I, Waite, AM, Hehemann, L, Boetius, A & Iversen, MH 2021, 'Sea ice presence is linked to higher carbon export and vertical microbial connectivity in the Eurasian Arctic Ocean', *Communications Biology*, vol. 4, 1255 (2021), pp. 1-13. <https://doi.org/10.1038/s42003-021-02776-w>

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12. Cardozo-Mino, MG, Rapp, JZ, Bienhold, C, Salter, I, Salman-Carvalho, V, Molari, M, Tegetmeyer, HE, Buttigieg, PL & Boetius, A 2021, 'Comparison of Two 16S rRNA Primers (V3–V4 and V4–V5) for Studies of Arctic Microbial Communities', *Frontiers in Microbiology*, vol. 12, 637526, pp. 1-11. <https://doi.org/10.3389/fmicb.2021.637526>
13. Nöthig, E-M, Lalande, C, Fahl, K, Metfies, K, Salter, I & Bauerfeind, E 2020, 'Annual cycle of downward particle fluxes on each side of the Gakkel Ridge in the central Arctic Ocean', *Philosophical Transactions of the Royal Society of London A: Mathematical, Physical and Engineering Sciences*, vol. 378, 20190368, pp. 1-12. <https://doi.org/10.1098/rsta.2019.0368>
14. Ray, JL (ed.), Strom, M (ed.), Johansen, T, Goodwin, KD, Arzayus, F, Gorecki III, E, Methot, R, Noji, T, Shelton, AO, Werner, C, Wiczorek, D, Arneberg, P, Junge, C, Mauritzen, M, Olsen, E, Stiansy, M, Westgaard, J-I, Baussant, T, Dahlgreen, T, Larsen, A, Praebel, K, Wangensteen, O, Allen, E, Kelly, R, Palardy, J & Salter, I 2020, *Implementation of Environmental DNA (eDNA) as a Tool for Ecosystem-Based Fisheries Management: US-Norway Intergovernmental Group on eDNA Implementation for Fisheries Stock Assessments and Management (UNIG)*. Northwest Fisheries Science Center, Seattle. <https://doi.org/10.25923/e736-vn83>
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18. Bracher, A, Dinter, T, Endres, S, Grosse, J, Metfies, K, Peeken, I, Piontek, J, Salter, I & Nöthig, E-M 2019, 'Inter-Annual Variability of Organic Carbon Concentration in the Eastern Fram Strait During Summer (2009–2017)', *Frontiers in Marine Science*, vol. 6, 187, pp. 1-17. <https://doi.org/10.3389/fmars.2019.00187>
19. Fadeev, E, Salter, I, Schourop-Kristensen, V, Nöthig, E-M, Metfies, K, Engel, A, Piontek, J, Boetius, A & Bienhold, C 2018, 'Microbial Communities in the East and West Fram Strait During Sea Ice Melting Season', *Frontiers in Marine Science*, vol. 5, 429, pp. 1-21. <https://doi.org/10.3389/fmars.2018.00429>
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23. Salter, I 2018, 'Seasonal variability in the persistence of dissolved environmental DNA (eDNA) in a marine system: The role of microbial nutrient limitation', *PloS one*, vol. 13, no. 2, e0192409, pp. 1-23. <https://doi.org/10.1371/journal.pone.0192409>
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## Research Output – Other Contributions

1. Salter, I & Mortensen, E 2024, *A registry of Phytoplankton diversity in Faroese Shelf waters: Combining results from the Faroese Marine Ecosystem Observing Study (FAMEOS) with historical records*. Faroe Marine Research Institute.
2. Jacobsen, Á, Vang, A, Salter, I, Juul-Pedersen, T, Sveinsson, S, Pampoulie, C & Wangensteen, O 2023, *Perspectives on implementation of eDNA methods in Northeast Atlantic marine monitoring*. vol. 2023, 517 edn, TemaNord. <<https://pub.norden.org/temanord2023-517/index.html>>
3. Jacobsen, Á, Vang, A, Salter, I, Juul-Pedersen, T, Sveinsson, S, Pampoulie, C, Wangensteen, O, Praebel, K, Mikalsen, S-O, Djurhuus, A, Pálsson, S & Gíslason, D 2023, *Perspectives on implementation of eDNA methods in Northeast Atlantic monitoring: A basis for researchers and stakeholders to discuss challenges and ambitions*. TemaNord, no. 517, Nordic Council of Ministers, Copenhagen. <https://doi.org/10.6027/temanord2023-517>
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5. Hátun, H, Larsen, KMH, Jacobsen, S, Salter, I & Gaard, E 2022, *Open ocean nutrient sampling in Faroese water 2013-2020*. Faroe Marine Research Institute.
6. Johansen, M, Stern, R, Artigas, F, Bresnan, E, Clarke, D, Creach, V, Husby, S, Jurgense, I, Kraberg, A, Lanzen, A, Metfies, K, O'Brien, T, Pilkaityte, R, van den Oever, A, Poulton, N, Sosik, H, Salter, I, Tarran, G, Teirra, E, Vaiciute, D & Widdicombe, C 2021, *Working Group on Phytoplankton and Microbial Ecology (WFPME): ICES Scientific Reports*. ICES scientific reports, no. 92, vol. 3, ICES, Copenhagen. <https://doi.org/doi.org/10.17895/ices.pub.8450>
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