

Curriculum vitae

Ronnie N. Glud

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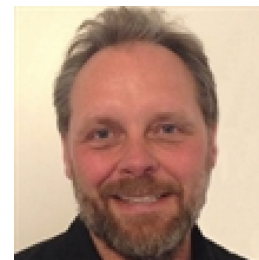
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Scientific education and positions

1990	Master in Microbial Ecology, Aarhus University, DK
1993	Ph.D. in Microbiel Ecology, Aarhus University, DK
1993-1996	Assistant Professor, Max Planck Institute-Bremen, D
1997	Assistant Professor, Aarhus University, DK
1997-2007	Associated Professor, University of Copenhagen, DK
2017	Dr.scient. at Faculty of Science, University of Copenhagen, DK
2007-2010	Professor, SAMS, UK
2010-present	Professor, University of Southern Denmark
2017-present	Professor (20%), Tokyo University for Marine Science and Technology, Japan
2020-	Centerleader, Danish Center for Hadal Research

Research Interests

Development and application of in situ lander technology for studying microbial ecology and biogeochemistry. Benthic biogeochemistry and solute exchange, carbon mineralization, photosynthesis, bioturbation, bioirrigation. Development and application of microsensors and imaging techniques in microbial ecology and biogeochemistry. Polar biology, climate changes, local-regional and global element cycling, sea-ice microbiology.

Research outputs

Strong linkage between benthic oxygen uptake and bacterial tetraether lipids in deep-sea trench regions

Xiao, W., Xu, Y., Canfield, D. E., Wenzhöfer, F., Zhang, C. & Glud, R. N., Dec 2024, In: Nature Communications. 15, 1, 12 p., 3439.

Seafloor primary production in a changing Arctic Ocean

Attard, K., Singh, R. K., Gattuso, J. P., Filbee-Dexter, K., Krause-Jensen, D., Kühl, M., Sejr, M. K., Archambault, P., Babin, M., Bélanger, S., Berg, P., Glud, R. N., Hancke, K., Jänicke, S., Qin, J., Rysgaard, S., Sørensen, E. B., Tachon, F., Wenzhöfer, F. & Ardyna, M., 12. Mar 2024, In: PNAS. 121, 11, p. e2303366121 10 p.

Denitrification, anammox, and DNRA in oligotrophic continental shelf sediments

Cheung, H. L. S., Hillman, J. R., Pilditch, C. A., Savage, C., Santos, I. R., Glud, R. N., Nascimento, F. J. A., Thrush, S. F. & Bonaglia, S., Mar 2024, In: Limnology and Oceanography. 69, 3, p. 621-637

Hydrostatic pressure impedes the degradation of sinking copepod carcasses and fecal pellets

Franco-Cisterna, B., Stief, P. & Glud, R. N., Mar 2024, In: Journal of Plankton Research. 46, 2, p. 219-223

Microorganisms oxidize glucose through distinct pathways in permeable and cohesive sediments

Hutchinson, T. F., Kessler, A. J., Wong, W. W., Hall, P., Leung, P. M., Jirapanjawat, T., Greening, C., Glud, R. N. & Cook, P. L. M., 8. Jan 2024, In: The ISME Journal. 18, 1, wræ001.

Metagenome-assembled genomes of deep-sea sediments: changes in microbial functional potential lag behind redox transitions

Schauberger, C., Thamdrup, B., Lemonnier, C., Trouche, B., Poulain, J., Wincker, P., Arnaud-Haond, S., Glud, R. N. & Maignien, L., Jan 2024, In: ISME Communications. 4, 1, ycad005.

Distribution and genomic variation of ammonia-oxidizing archaea in abyssal and hadal surface sediments

Trouche, B., Schauberger, C., Boudierka, F., Auguet, J-C., Belser, C., Poulain, J., Thamdrup, B., Wincker, P., Arnaud-Haond, S., Glud, R. N. & Maignien, L., 1. Dec 2023, In: ISME Communications. 3, 1, p. 133 12 p.

Hydrostatic pressure induces transformations in the organic matter and microbial community composition of marine snow particles

Stief, P., Schauburger, C., Becker, K. W., Elvert, M., Balmonte, J. P., Franco-Cisterna, B., Middelboe, M. & Glud, R. N., Dec 2023, In: Communications Earth and Environment. 4, 1, 14 p., 377.

The climate benefit of seagrass blue carbon is reduced by methane fluxes and enhanced by nitrous oxide fluxes

Eyre, B. D., Camillini, N., Glud, R. N. & Rosentreter, J. A., Dec 2023, In: Communications Earth and Environment. 4, 1, 9 p., 374.

Pulses of labile carbon cause transient decoupling of fermentation and respiration in permeable sediments

Nauer, P. A., Kessler, A. J., Hall, P., Popa, M. E., ten Hietbrink, S., Hutchinson, T., Wong, W. W., Attard, K., Glud, R. N., Greening, C. & Cook, P. L. M., Sept 2023, In: Limnology and Oceanography. 68, 9, p. 2141-2152 12 p.

Uniform selective pressures within redox zones drive gradual changes in microbial community composition in hadal sediments

Schauburger, C., Seki, D., Cutts, E. M., Glud, R. N. & Thamdrup, B., Sept 2023, In: Environmental Microbiology. 25, 9, p. 1594-1604

Disentangling Effects of Sea Surface Temperature and Water Depth on Hydroxylated Isoprenoid GDGTs: Insights From the Hadal Zone and Global Sediments

Xiao, W., Xu, Y., Zhang, C., Lin, J., Wu, W., Xiaoxia, L., Tan, J., Zhang, X., Zheng, F., Song, X., Zhu, Y., Yang, Y., Zhang, H., Wenzhöfer, F., Rowden, A. A. & Glud, R. N., 16. Aug 2023, In: Geophysical Research Letters. 50, 15, 12 p., e2023GL103109.

High variability in organic carbon sources and microbial activities in the hadopelagic waters

Li, X., Zhao, X., Dang, H., Zhang, C., Fernández-Urruzola, I., Liu, Z., Wenzhöfer, F. & Glud, R. N., Aug 2023, In: Limnology and Oceanography. 68, 8, p. 1704-1718

Reconciling the importance of meiofauna respiration for oxygen demand in muddy coastal sediments

Maciute, A., Holovachov, O., Glud, R. N., Broman, E., Berg, P., Nascimento, F. J. A. & Bonaglia, S., Aug 2023, In: Limnology and Oceanography. 68, 8, p. 1895-1905

Tidal to decadal scale hydrodynamics at two contrasting cold-water coral sites in the Northeast Atlantic

Mohn, C., Hansen, J. L. S., Carreiro-Silva, M., Cunningham, S. A., de Froe, E., Dominguez-Carrió, C., Gary, S., Glud, R. N., Göke, C., Johnson, C., Morato, T., Friis Møller, E., Rovelli, L., Schulz, K., Soetaert, K., van der Kaaden, A. & van Oevelen, D., Jun 2023, In: Progress in Oceanography. 214, 19 p., 103031.

Organic matter degradation causes enrichment of organic pollutants in hadal sediments

Sobek, A., Abel, S., Sanei, H., Bonaglia, S., Li, Z., Horlitz, G., Rudra, A., Oguri, K. & Glud, R. N., 10. Apr 2023, In: Nature Communications. 14, 1, 9 p., 2012.

Microbial degradation dynamics of farmed kelp deposits from *Saccharina latissima* and *Alaria esculenta*

Boldreel, E. H., Attard, K. M., Hancke, K. & Glud, R. N., Apr 2023, In: Marine Ecology Progress Series. 709, p. 1-15

Poster: Strong linkage between sediment oxygen consumption and brGDGTs.

Xiao, W., Canfield, D. E. & Glud, R. N., 2023.

Intra- and inter-spatial variability of meiofauna in hadal trenches is linked to microbial activity and food availability

Shimabukuro, M., Zeppilli, D., Leduc, D., Wenzhöfer, F., Berg, P., Rowden, A. A. & Glud, R. N., Dec 2022, In: Scientific Reports. 12, 1, 4338.

Sinking krill carcasses as hotspots of microbial carbon and nitrogen cycling in the Arctic

Franco-Cisterna, B., Glud, A., Bristow, L. A., Rudra, A., Sanei, H., Winding, M. H. S., Nielsen, T. G., Glud, R. N. & Stief, P., 3. Nov 2022, In: Frontiers in Marine Science. 9, 1019727.

Independent radiation of snailfishes into the hadal zone confirmed by *Paraliparis selti* sp. nov. (Perciformes: Liparidae) from the Atacama Trench, SE Pacific

Linley, T. D., Gerringer, M. E., Ritchie, H., Weston, J. N. J., Scott-Murray, A., Fernandez, V., Canto-Hernández, J., Wenzhöfer, F., Glud, R. N. & Jamieson, A. J., Oct 2022, In: *Marine Biodiversity*. 52, 5, 56.

Sediment accumulation and carbon burial in four hadal trench systems

Oguri, K., Masqué, P., Zabel, M., Stewart, H. A., MacKinnon, G., Rowden, A. A., Berg, P., Wenzhöfer, F. & Glud, R. N., Oct 2022, In: *Journal of Geophysical Research: Biogeosciences*. 127, 10, 23 p., e2022JG006814.

High carbon mineralization rates in seafloor hadal sediments—result of frequent mass wasting

Zabel, M., Glud, R. N., Sanei, H., Elvert, M., Pape, T., Chuang, P. C., Okuma, E., Geprägs, P. & Kölling, M., Sept 2022, In: *Geochemistry, Geophysics, Geosystems*. 23, 9, e2022GC010502.

Imaging the snorkel effect during submerged germination in rice: Oxygen supply via the coleoptile triggers seminal root emergence underwater

Shiono, K., Koshide, A., Iwasaki, K., Oguri, K., Fukao, T., Larsen, M. & Glud, R. N., 29. Jul 2022, In: *Frontiers in Plant Science*. 13, 946776.

Intracellular nitrate storage by diatoms can be an important nitrogen pool in freshwater and marine ecosystems

Stief, P., Schauburger, C., Lund, M. B., Greve, A., Abed, R. M. M., Al-Najjar, M. A. A., Attard, K., Bonaglia, S., Deutzmann, J. S., Franco-Cisterna, B., García-Robledo, E., Holtappels, M., John, U., Maciute, A., Magee, M. J., Pors, R., Santl-Temkiv, T., Scherwass, A., Sevilgen, D. S., de Beer, D., & 3 others Glud, R. N., Schramm, A. & Kamp, A., Jul 2022, In: *Communications Earth and Environment*. 3, 1, 11 p., 154.

Sediment oxygen consumption: Role in the global marine carbon cycle

Jørgensen, B. B., Wenzhöfer, F., Egger, M. & Glud, R. N., May 2022, In: *Earth-Science Reviews*. 228, 35 p., 103987.

On single-cell enzyme assays in marine microbial ecology and biogeochemistry

Traving, S. J., Balmonte, J. P., Seale, D., Arnosti, C., Glud, R. N., Hallam, S. J. & Middelboe, M., 25. Feb 2022, In: *Frontiers in Marine Science*. 9, 846656.

The hadal zone is an important and heterogeneous sink of black carbon in the ocean

Zhang, X., Xu, Y., Xiap, W., Zhao, M., Wang, Z., Wang, X., Xu, L., Luo, M., Li, X., Fang, J., Fang, Y., Wang, Y., Oguri, K., Wenzhöfer, F., Rowden, A. A., Mitra, S. & Glud, R. N., 4. Feb 2022, In: *Communications Earth & Environment*. 3, 9 p., 25.

Aquatic Eddy Covariance: The Method and Its Contributions to Defining Oxygen and Carbon Fluxes in Marine Environments

Berg, P., Huettel, M., Glud, R. N., Reimers, C. E. & Attard, K. M., Jan 2022, In: *Annual Review of Marine Science*. 14, p. 431-455

Contrasting Biophysical Controls on Carbon Dioxide and Methane Outgassing From Streams

Rovelli, L., Olde, L. A., Heppell, C. M., Binley, A., Yvon-Durocher, G., Glud, R. N. & Trimmer, M., Jan 2022, In: *Journal of Geophysical Research: Biogeosciences*. 127, 1, e2021JG006328.

Benthic O₂ uptake by coral gardens at the Condor seamount (Azores)

Rovelli, L., Carreiro-Silva, M., Attard, K. M., Rakka, M., Dominguez-Carrió, C., Bilan, M., Blackbird, S., Morato, T., Wolff, G. A. & Glud, R. N., 2022, In: *Marine Ecology Progress Series*. 688, p. 19-31

A global ocean oxygen database and atlas for assessing and predicting deoxygenation and ocean health in the open and coastal ocean

Grégoire, M., Garçon, V., Garcia, H., Breitburg, D., Isensee, K., Oschlies, A., Telszewski, M., Barth, A., Bittig, H. C., Carstensen, J., Carval, T., Chai, F., Chavez, F., Conley, D. J., Coppola, L., Crowe, S., Currie, K., Dai, M., Deflandre, B., Dewitte, B., & 37 others Diaz, R., Garcia-Robledo, E., Gilbert, D., Giorgetti, A., Glud, R. N., Gutiérrez, D., Hosoda, S., Ishii, M., Jacinto, G., Langdon, C., Lauvset, S. K., Levin, L. A., Limburg, K. E., Mehrtens, H., Montes, I., Naqvi, S. W. A., Paulmier, A., Pfeil, B., Pitcher, G., Pouliquen, S., Rabalais, N., Rabouille, C., Recape, V., Roman, M., Rose, K., Rudnick, D., Rummer, J., Schmechtig, C., Schmidtko, S., Seibel, B. A., Slomp, C., Sumalia, U. R., Tanhua, T., Thierry, V., Uchida,

H., Wanninkhof, R. & Yasuhara, M., 21. Dec 2021, In: *Frontiers in Marine Science*. 8, 29 p., 724913.

Microbial community structure in hadal sediments: high similarity along trench axes and strong changes along redox gradients

Schauberger, C., Glud, R. N., Hausmann, B., Trouche, B., Maignien, L., Poulain, J., Wincker, P., Arnaud-Haond, S., Wenzhöfer, F. & Thamdrup, B., Dec 2021, In: *The ISME Journal*. 15, 12, p. 3455-3467

Spatial and temporal anoxia in single-osculum *Halichondria panicea* demosponge explants studied with planar optodes

Kumala, L., Larsen, M., Glud, R. N. & Canfield, D. E., Dec 2021, In: *Marine Biology*. 168, 12, 13 p., 173.

Temperature effects on carbon mineralization of sinking copepod carcasses

Franco-Cisterna, B., Stief, P. & Glud, R. N., 25. Nov 2021, In: *Marine Ecology Progress Series*. 679, p. 31-45

Anammox bacteria drive fixed nitrogen loss in hadal trench sediments

Thamdrup, B., Schauberger, C., Larsen, M., Trouche, B., Maignien, L., Arnaud-Haond, S., Wenzhöfer, F. & Glud, R. N., 16. Nov 2021, In: *PNAS*. 118, 46, 7 p., e2104529118.

A microsensor-based method for measuring respiration of individual nematodes

Maciute, A., Holovachov, O., Berg, P., Glud, R. N., Broman, E., Nascimento, F. J. A. & Bonaglia, S., Oct 2021, In: *Methods in Ecology and Evolution*. 12, 10, p. 1841-1847

Plankton respiration in the Atacama Trench region: Implications for particulate organic carbon flux into the hadal realm

Fernández-Urruzola, I., Ulloa, O., Glud, R. N., Pinkerton, M. H., Schneider, W., Wenzhöfer, F. & Escribano, R., Aug 2021, In: *Limnology and Oceanography*. 66, 8, p. 3134-3148

Sediment reworking by the burrowing polychaete *Hediste diversicolor* modulated by environmental and biological factors across the temperate North Atlantic. A tribute to Gaston Desrosiers

Gilbert, F., Kristensen, E., Aller, R. C., Banta, G. T., Archambault, P., Belley, R., Bellucci, L. G., Calder, L., Cuny, P., de Montaudouin, X., Eriksson, S. P., Forster, S., Gillet, P., Godbold, J. A., Glud, R. N., Gunnarsson, J., Hulth, S., Lindqvist, S., Maire, A., Michaud, E., & 7 others Norling, K., Renz, J., Solan, M., Townsend, M., Volkenborn, N., Widdicombe, S. & Stora, G., Aug 2021, In: *Journal of Experimental Marine Biology and Ecology*. 541, 11 p., 151588.

Respiration by "marine snow" at high hydrostatic pressure: Insights from continuous oxygen measurements in a rotating pressure tank

Stief, P., Elvert, M. & Glud, R. N., Jul 2021, In: *Limnology and Oceanography*. 66, 7, p. 2797-2809

***Eurythenes atacamensis* sp. nov. (Crustacea: Amphipoda) exhibits ontogenetic vertical stratification across abyssal and hadal depths in the Atacama Trench, eastern South Pacific Ocean**

Weston, J. N. J., Espinosa-Leal, L., Wainwright, J. A., Stewart, E. C. D., González, C. E., Linley, T. D., Reid, W. D. K., Hidalgo, P., Oliva, M. E., Ulloa, O., Wenzhöfer, F., Glud, R. N., Escribano, R. & Jamieson, A. J., Jun 2021, In: *Marine Biodiversity*. 51, 3, 20 p., 51.

Hypoxia Generated by Avian Embryo Growth Induces the HIF-alpha Response and Critical Vascularization

Carroll, C., Engstrom, N., Nilsson, P. F., Haxen, E. R., Mohlin, S., Berg, P., Glud, R. N. & Hammarlund, E. U., Jun 2021, In: *Frontiers in Ecology and Evolution*. 9, 15 p., 675800.

Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions

Schauberger, C., Middelboe, M., Larsen, M., Peoples, L. M., Bartlett, D. H., Kirpekar, F., Rowden, A. A., Wenzhöfer, F., Thamdrup, B. & Glud, R. N., Jun 2021, In: *Limnology and Oceanography*. 66, 6, p. 2095-2109

Distribution, Source, and Burial of Sedimentary Organic Carbon in Kermadec and Atacama Trenches

Xu, Y., Li, X., Luo, M., Xiao, W., Fang, J., Rashid, H., Peng, Y., Li, W., Wenzhöfer, F., Rowden, A. A. & Glud, R. N., May 2021, In: *Journal of Geophysical Research: Biogeosciences*. 126, 5, e2020JG006189.

Resolving community metabolism of eelgrass *Zostera marina* meadows by benthic flume-chambers and eddy covariance in dynamic coastal environments

Camillini, N., Attard, K. M., Eyre, B. D. & Glud, R. N., 4. Mar 2021, In: Marine Ecology Progress Series. 661, p. 97-114 18 p.

Element cycling and aquatic function in a changing Arctic

Hernes, P. J., Tank, S. E., Sejr, M. K. & Glud, R. N., Jan 2021, In: Limnology and Oceanography. 66, Suppl. 1, p. S1-S16

Mapping cold-water coral biomass: an approach to derive ecosystem functions

De Clippele, L. H., Rovelli, L., Ramiro-Sánchez, B., Kazanidis, G., Vad, J., Turner, S., Glud, R. N. & Roberts, J. M., Jan 2021, In: Coral Reefs. 40, p. 215-231

Hadal trenches are dynamic hotspots for early diagenesis in the deep sea

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High mercury accumulation in deep-ocean hadal sediments

Sanei, H., Outridge, P. M., Oguri, K., Stern, G. A., Thamdrup, B., Wenzhöfer, F., Wang, F. & Glud, R. N., 2021, In: Scientific Reports. 11, 1, 8 p., 10970.

Glycerol dialkyl glycerol tetraethers in surface sediments from three Pacific trenches: Distribution, source and environmental implications

Xu, Y., Jia, Z., Xiao, W., Fang, J., Wang, Y., Luo, M., Wenzhöfer, F., Rowden, A. A. & Glud, R. N., Sept 2020, In: Organic Geochemistry. 147, 104079.

Technical Note: Estimating light-use efficiency of benthic habitats using underwater O₂ eddy covariance

M. Attard, K. & N. Glud, R., 28. Aug 2020, In: Biogeosciences. 17, 16, p. 4343-4353

Metabolism of a subtidal rocky mussel reef in a high-temperate setting: Pathways of organic C flow

Attard, K. M., Rodil, I. F., Berg, P., Mogg, A. O. M., Westerbom, M., Norkko, A. & Glud, R. N., 9. Jul 2020, In: Marine Ecology Progress Series. 645, p. 41-54

Meiofauna improve oxygenation and accelerate sulfide removal in the seasonally hypoxic seabed

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Pore water conditions driving calcium carbonate dissolution in reef sands

Kessler, A. J., Rogers, A., Cyronak, T., Bourke, M. F., Hasler-Sheetal, H., Glud, R. N., Greening, C., Meysman, F. J. R., Eyre, B. D. & Cook, P. L. M., 15. Jun 2020, In: Geochimica et Cosmochimica Acta. 279, p. 16-28 13 p.

Sharp contrasts between freshwater and marine microbial enzymatic capabilities, community composition, and DOM pools in a NE Greenland fjord

Balmonte, J. P., Hasler-Sheetal, H., Glud, R. N., Andersen, T. J., Sejr, M. K., Middelboe, M., Teske, A. & Arnosti, C., Jan 2020, In: Limnology and Oceanography. 65, 1, p. 77-95

Estimating Respiration Rates and Secondary Production of Macrobenthic Communities Across Coastal Habitats with Contrasting Structural Biodiversity

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Benthic Oxygen and Nitrogen Exchange on a Cold-Water Coral Reef in the North-East Atlantic Ocean

de Froe, E., Rovelli, L., Glud, R. N., Maier, S. R., Duineveld, G., Mienis, F., Lavaleye, M. & van Oevelen, D., 25. Oct 2019, In: Frontiers in Marine Science. 6, 13 p., 665.

Benthic primary production and respiration of shallow rocky habitats: a case study from South Bay (Doumer Island, Western Antarctic Peninsula)

Rovelli, L., Attard, K. M., Cárdenas, C. A. & Glud, R. N., Aug 2019, In: Polar Biology. 42, 8, p. 1459-1474

Correction to: Benthic primary production and respiration of shallow rocky habitats: a case study from South Bay (Doumer Island, Western Antarctic Peninsula)

Rovelli, L., Attard, K. M., Cárdenas, C. A. & Glud, R. N., Aug 2019, In: Polar Biology. 42, 8, p. 1475-1476 2 p.

New training to meet the global phosphorus challenge

Reitzel, K., Bennett, W., Berger, N., Brownlie, W. J., Bruun, S., Christensen, M. L., Cordell, D., van Dijk, K., Egemose, S., Eigner, H., Glud, R. N., Gronfors, O., Hermann, L., Houot, S., Hupfer, M., Jacobs, B., Korving, L., Kjærgaard, C., Liimatainen, H., Van Loosdrecht, M. C. M., & 22 others Macintosh, K. A., Magid, J., Maia, F., Martin-Ortega, J., McGrath, J., Meulepas, R., Murry, M., Neset, T-S., Neumann, G., Nielsen, U. G., Nielsen, P. H., O'Flaherty, V., Qu, H., Santner, J., Seufert, V., Spears, B., Stringer, L. C., Stutter, M., Verburg, P. H., Wilfert, P., Williams, P. N. & Metson, G. S., 8. Jul 2019, In: Environmental Science & Technology. 53, 15, p. 8479-8481 3 p.

Seasonal ecosystem metabolism across shallow benthic habitats measured by aquatic eddy covariance

Attard, K. M., Rodil, I. F., Glud, R. N., Berg, P., Norkko, J. & Norkko, A., 16. Jun 2019, In: Limnology and Oceanography Letters. 4, 3, p. 79-86 8 p.

Cable bacteria promote DNRA through iron sulfide dissolution

Kessler, A. J., Wawryk, M., Marzocchi, U., Roberts, K. L., Wong, W. W., Risgaard-Petersen, N., Meysman, F. J. R., Glud, R. N. & Cook, P. L. M., 1. May 2019, In: Limnology and Oceanography. 64, 3, p. 1228-1238

Depression chains in seafloor of contrasting morphology, Atacama Trench margin: A comment on Marsh et al. (2018)

Purser, A., Herr, H., Dreutter, S., Dorschel, B., Glud, R. N., Hehemann, L., Hoge, U., Jamieson, A. J., Linley, T. D., Stewart, H. A. & Wenzhöfer, F., 1. Mar 2019, In: Royal Society Open Science. 6, 3, 7 p., 182053.

Seasonal metabolism and carbon export potential of a key coastal habitat: the perennial canopy-forming macroalga *Fucus vesiculosus*

Attard, K., Rodil, I., Berg, P., Norkko, J., Norkko, A. & Glud, R. N., 24. Jan 2019, In: Limnology and Oceanography. 64, 1, p. 149-164

Spatial heterogeneity and short-term oxygen dynamics in the rhizosphere of *Vallisneria spiralis*: Implications for nutrient cycling

Marzocchi, U., Benelli, S., Larsen, M., Bartoli, M. & Glud, R. N., 2. Jan 2019, In: Freshwater Biology. 64, 3, p. 532-543

Behavioural patterns of the soft-shell clam *Mya arenaria*: Implications for benthic oxygen and nitrogen dynamics

Camillini, N., Larsen, M. & Glud, R. N., 2019, In: Marine Ecology Progress Series. 622, p. 103-119 17 p.

Towards a sampling design for characterizing habitat-specific benthic biodiversity related to oxygen flux dynamics using Aquatic Eddy Covariance

Rodil, I. F., Attard, K. M., Norkko, J., Glud, R. N. & Norkko, A., 2019, In: PLOS ONE. 14, 2, 21 p., e0211673.

Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium

Stief, P., Lundgaard, A. S. B., Treusch, A. H., Thamdrup, B., Grossart, H-P. & Glud, R. N., 1. Oct 2018, In: FEMS Microbiology Ecology. 94, 10, 14 p.

Headwater gas exchange quantified from O₂ mass balances at the reach scale

Rovelli, L., Attard, K. M., Heppell, C. M., Binley, A., Trimmer, M. & Glud, R. N., Oct 2018, In: Limnology and Oceanography: Methods. 16, 10, p. 696-709

Oxygen fluxes beneath Arctic land-fast ice and pack ice: towards estimates of ice productivity

Attard, K. M., Sogaard, D., Piontek, J., Lange, B. A., Katlein, C., Sørensen, H. L., McGinnis, D. F., Rovelli, L., Rysgaard, S., Wenzhöfer, F. & Glud, R. N., Oct 2018, In: Polar Biology. 41, 10, p. 2119-2134

Feeding-related controls on microbial nitrogen cycling associated with the Arctic marine copepod *Calanus hyperboreus*
Stief, P., Lundgaard, A. S. B., Nielsen, T. G. & Glud, R. N., 23. Aug 2018, In: Marine Ecology Progress Series. 602, p. 1-14

Copepod-associated anaerobic nitrogen cycling across ecosystems and taxonomic groups

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