

## Nuuk Bibliography (30.06.2014)

### 2014

#### Peer-reviewed papers

Riisgaard, K. et al 2014. Trophic role and top-down control of a subarctic protozooplankton community. *Marine Ecology Progress Series* 500: 67-82.

#### Reports and books

Aastrup, P., Raundrup, K., Feilberg, J., Krogh, P.H., Schmidt, N.M. and Nabe-Nielsen, J. 2014. Effects of large herbivores on biodiversity of vegetation and soil microarthropods in low Arctic Greenland: Akia, West Greenland and southern Greenland. Aarhus University, DCE - Danish Centre for Environment and Energy, Scientific Report no. 87. 40 pp.

### 2013

#### Peer-reviewed papers

Arendt, K.E., Juul-Pedersen, T., Mortensen, J., Blicher, M.E., Rysgaard, S. 2013. A five years study of seasonal patterns in mesozooplankton community structure in a sub-arctic fjord reveals dominance of *Microsetella norvegica* (Crustacea, Copepoda). *Journal of Plankton Research* 35: 105-120. doi: 10.1093/plankt/fbs087.

Blicher, M.E., Høgslund, S. and Sejr, M.K. 2013. Population structure of *Mytilus edulis* in the intertidal zone in a sub-Arctic fjord, SW Greenland. *Marine Ecology Progress Series* 487: 89-100.

Dziallas, C., Grossart, H.P., Tang, K.W. and Nielsen, T.G. 2013. Distinct Communities of Free-Living and Copepod-Associated Microorganisms along a Salinity Gradient in Godthabsfjord, West Greenland. *Arctic, Antarctic and Alpine Research* 45(4): 471-480.

Josefson, A.B., Mokievsky, V., Bergmann, M., Blicher, M.E., Bluhm, B., Cochrane, S., Denisenko, N.V., Hasemann, C., Jørgensen, L. L., Klages, M., Schewe, I., Sejr, M.K., Soltwedel, T., Weslawski, J.M. and Wlodarska-Kowalczyk, M. 2013. Marine Invertebrates p. 277-309. In Meltofte, H. (ed.) 2013. Arctic Biodiversity Assessment. Status and trends in Arctic biodiversity. Conservation of Arctic Flora and Fauna, Akureyri, Iceland. 674 pp. ISBN: 978-9935-431-22-6.

Kaartokallio, H., Søgaard, D., Norman, L., Rysgaard, S, Tison, J-L., Delille, B. and Thomas, D.N. 2013. Short- term variability in bacterial abundance, cell properties, leucine and thymidine incorporation in sub-Arctic sea ice. *Aquatic Microbial Ecology* 71:57-73.

Kjeldsen, K.K., Mortensen, J., Kjær, K.H., Bendtsen, J., Lennert, K., Rysgaard, S. 2014. Ice-dammed lake drainage cools raises surface salinities in a tidewater outlet glacier fjord, West Greenland. *Journal of Geophysical Research Earth Surface*. Doi: 10.1002/2013JF003034.

Krawczyk, D.W., Witkowski, A., Lloyd, J., Moros, M., Harff, J. and Kuijpers, A. 2013. Late-Holocene diatom derived seasonal variability in hydrological conditions off Disko Bay, West Greenland. *Quaternary Science Reviews* 67: 93-104.

Mortensen, J., Bendtsen, J., Motyka, R.J., Lennert, K., Truffer, M., Fahnestock, M. and Rysgaard, S. 2013. On the seasonal freshwater stratification in the proximity of fast-flowing tidewater outlet glaciers in a sub-Arctic sill fjord. *Journal of Geophysical Research Oceans* 118: 1-14. Doi: 10.1002/jgrc.20134.

Parmentier, F.J.W., Christensen, T.R., Sørensen, L.L., Rysgaard, S., McGuire, A.D., Miller, P.A. and Walker, D.A. 2013. The impact of a lower sea-ice extent on Arctic greenhouse-gas exchange. *Nature Climate Change* 3: 195-202. Doi: 10.1038/nclimate1784.

Rysgaard, S., Søgaard, D., Cooper, M., Pucko, M., Lennert, K., Papakyriakou, T.N., Wang, F., Geilfus, N.X., Glud, R.N., Ehn, J., McGinnes, D., Attard, K., Siverts, J., Deming, J.W., Barber, D. 2013. Ikaite crystal distribution in Arctic winter sea ice and its implications for CO<sub>2</sub> system dynamics. *The Cryosphere* 7, 1-12 doi:10.5194/tc-7-1-2013.

Søgaard, D.H., Thomas, D., Rysgaard, S., Glud, R.N., Norman, L., Kaartokallio, H., Juul-Pedersen, T. and Geilfus, N-X. 2013. The relative contributions of biological and abiotic processes to the carbon dynamics in subarctic sea ice during the transition from winter to spring. *Polar Biology*. DOI 10.1007/s00300-013-1396-3.

Westergaard-Nielsen, A., Lund, M., Hansen, B.U. and Tamstorf, M.P. 2013. Camera derived vegetation greenness index as proxy for gross primary production in a low Arctic wetland area. *ISPRS Journal of Photogrammetry and Remote Sensing* 86:89-99.

Zamora-Terol, S., Nielsen, T.G. and Saiz, E. 2013. Plankton community structure and role of *Oithona similis* on the western coast of Greenland during the winter-spring transition. *Marine Ecology Progress Series* 483:85-102.

### Reports and books

Jensen, L.M. and Rasch, M. (eds.) 2013. Nuuk Ecological Research Operations, 6th Annual Report, 2012. Aarhus University, DCE – Danish Centre for Environment and Energy. 92 pp.

Skotte, T.B. and Petersen, D. 2013. Nuuk Basic Snow Survey 2013. Data Collection, Post Processing and Results. Asiaq Report 2013-04. 20 pp.

Rysgaard, S., Pucko, M. and Mundy, C.J. 2013. Arctic geomicrobiology and climate change. ArcticNet Annual Progress Report (2012-13). 18 pp.

### General information

Christensen, P.B. 2013. Muslinger gemmer på klimahistorie. Artikel i avisen Sermitsiaq.

## 2012

### Peer-reviewed papers

Arendt, K.E., Juul-Pedersen, T., Mortensen, J., Blicher, M.E. and Rysgaard, S. 2012. A 5-year study of seasonal patterns in mesozooplankton community structure in a sub-Arctic fjord reveals dominance of *Microsetella norvegica* (Crustacea, Copepoda). *Journal of Plankton Research* 35(1):105-120.

Bluhm, B.A., Grebmeier, J.M., Archambault, P., Blicher, M.E., Guðmundsson, G., Iken, K., Lindal Jørgensen, L. and Mokievsky, V. 2012. Benthos In Arctic Report Card 2012 – tracking recent environmental changes (<http://www.arctic.noaa.gov/reportcard/benthos.html>).

Carlsson, P., Cornelissen, G., Bøggild, C.E., Rysgaard, S., Mortensen, J. and Kallenborn, R. 2012. Hydrology-linked spatial distribution of pesticides in a fjordsystem in Greenland. *Journal of Environmental Monitoring* 14(5):1437-1443.

Hansen, J.H., Hedeholm, R.B., Sunksen, K., Christensen, J.T. and Grønkjær, P. 2012. Spatial variability of carbon (delta C-13) and nitrogen (delta N-15) stable isotope ratios in an Arctic marine food web. *Marine Ecology Progress Series* 467:47-59.

Hedeholm, R., Grønkjær, P. and Rysgaard, S. 2012. Feeding ecology of capelin (*Mallotus villosus* Müller) in West Greenlandic waters. *Polar Biology*. Doi:10.1007/s00300-012-1193-4.

Heide-Jørgensen, M.P., Laidre, K.L., Hansen, R.G., Burt, M.L., Simon, M., Borchers, D.L., Hansen, J., Harding, K., Rasmussen, M., Dietz, R. and Teilmann, J. 2012. Rate of increase and current abundance of humpback whales in West Greenland. *Journal of Cetacean Research and Management* 12(1):1-14.

Krause-Jensen, D., Marbà, N., Olesen, B., Sejř, M.K., Christensen, P.B., Rodrigues, J., Renaud, P.E., Balsby, T.J. and Rysgaard, S. 2012. Seasonal sea ice cover as principal driver of spatial and temporal variation in depth extension and annual production of kelp in Greenland. *Global Change Biology* 18(10):2981-2994.

Long, M.H., Koopmans, D., Berg, P., Rysgaard, S., Glud, R.N. and Søgaard, D.H. 2012. Oxygen exchange and ice melt measured at the ice-water interface by eddy correlation. *Biogeosciences* 9:1-11.  
Doi: 10.5194/bg-9-1-2012.

MacBride, J.R. and Douhovnikoff, V. 2012. Characteristics of the urban forests in arctic and near-arctic cities. *Urban Forestry & Urban Greening* 11(2): 113-119.

Middelboe, M., Glud, R.N. and Sejř, M.K. 2012. Bacterial carbon cycling in a subarctic fjord: A seasonal study on microbial activity, growth efficiency, and virus-induced mortality in Kobbefjord, Greenland. *Limnology Oceanography* 57(6):1732-1742.

Rysgaard, S., Glud, R.N., Lennert, K., Cooper, M., Halden, N., Leaky, R., Hawthorne, F.C. and Barber, D. 2012. Ikaite crystals in melting sea ice leads to low pCO<sub>2</sub> levels and high pH in Arctic surface waters. *The Cryosphere* 6:1-8. Doi: 10.5194/tc-6-901-2012.

Rysgaard, S., Mortensen, J., Juul-Pedersen, T., Sørensen, L.L., Lennert, K., Søgaard, D.H., Arendt, K.E., Blicher, M.E., Sejř, M.K. and Bendtsen, J. 2012. High air-sea CO<sub>2</sub> uptake rates in nearshore and shelf areas of Southern Greenland: Temporal and spatial variability. *Marine Chemistry* 128:26-33.

Sealy, S.G. and Carter, H. R. 2012. Rare Inter-ocean Vagrancy in Crested Auklet and Parakeet Auklet. *Waterbirds* 35(1):64-73.

Simon, M., Johnson, M. and Madsen, P.T. 2012. Keeping momentum with a mouthful of water: behavior and kinematics of humpback whale lunge feeding. *The Journal of Experimental Biology* 215:3786-3798.  
Doi: 10.1242/jeb.071092.

Søndergaard, J., Rigét, F., Tamstorf, M.P. and Larsen, M.M. 2012. Mercury transport in low-Arctic river in Kobbefjord, West Greenland. *Water, Air and Soil Pollution* 223(7):4333-4342.

Versteegh, E.A.A, Blicher, M.E., Mortensen, J., Rysgaard, S., Als, T.D. and Wanamaker Jr, A.D. 2012. Oxygen isotope ratios in the shell of *Mytilus edulis*: Archives of glacier melt water in Greenland? *Biogeochemical Discussions* 9, 12019-12046.

## Reports and books

Hassel, K., Prestø, T., and Schmidt, N. M. 2012. Bryophyte diversity in high and low arctic Greenland: Establishment of permanent monitoring transects and bryophyte mapping in Zackenberg and Kobbefjord 2009-2010. Aarhus University, DCE - Danish Centre for Environment and Energy - Scientific Report no. 27. 44 pp.

Jensen, L.M. (ed) 2012: NERO - Nuuk Ecological Research Operations, 5th Annual Report 2011. Aarhus University, DCE – Danish Centre for Environment and Energy. 84 pp.

Lennert, A. 2012. Settlement patterns in the Godthåbsfjord and the interaction between humans and ice (985-1350). Master Thesis, Ilisimatusarfik and Greenland Climate Research Centre. 108 pp.

Lyshede, B. M. 2012. Diurnal Variation in Methane Flux in a Low-Arctic Fen in Southwest Greenland. Master thesis, Student thesis series INES nr 232. Lund University, Sweden. 26 pp.

Mikkelsen, N., Lennert, A., Ribeiro, S. and Nørgaard-Pedersen, N. 2012. Marine geological sampling in the Godthåbsfjord region. Geological cruise report 'R/V Sanna' 10-18 May. Greenland Climate Research Centre and GEUS. 12 pp.

Pernosky, M.A. 2012. ClimateBasis Monitoring Program Nuuk Basic, 2007-2010. Re-evaluation of PRE & UVB. Asiaq Report no. 2012-16. 5 pp.

Pernosky, M. A. 2012. Nuuk Basic Snow Survey 2012. Data Collection, Post Processing and Results. Asiaq Report 2012-10. 24 pp.

Pernosky, M. A., Hangaard, P. and Larsen, M. 2012. ClimateBasis Monitoring Program Nuuk Basic, 2011. Asiaq Report no. 2012-05. 40 pp.

Rysgaard, S. 2012. Arctic Geomicrobiology and Climate Change. ArcticNet Annual Progress Report. Page 532-538.

Sørensen, H.L. 2012. Seasonal Dynamics in Benthic Metabolism in a Subarctic Fjord. Master thesis. University of Southern Denmark and Greenland Climate Research Centre. 79 pp.

### **General information**

Aastrup, P., Raundrup, K. and Nymand, J. 2012. Overvågning af klimaeffekter i Kobbefjord, Vestgrønland. Vand og Jord 19(1):23-26.

Philbert, P-E. 2012. Larveangreb i Kobbefjord. Polarfronten 2:18-19.

Rysgaard, S. 2012. Den moderne polarforsker. Aarhus Stiftstidende, Denmark. 22 September.

## **2011**

### **Peer-reviewed papers**

Agersted, M.D., Nielsen, T.G., Munk, P., Vismann, B. and Arendt, K.E. 2011. The functional biology and trophic role of krill (*Thysanoessa raschii*) in a Greenlandic fjord. Marine Biology 158(6):1387–1402. DOI 10.1007/s00227-011-1657-z.

Arendt, K.E., Dutz, J., Jonasdottir, S.H., Jung-Madsen, S., Mortensen, J., Moeller, E.F. and Nielsen, T.G. 2011. Effects of suspended sediments on copepods feeding in a glacial influenced sub-Arctic fjord. Journal of Plankton Research. DOI:10.1093/plankt/fbr054.

Blicher, M.E., Rasmussen, L.M., Sejr, M.K., Merkel, F.R. and Rysgaard, S. 2011. Abundance and energy requirements of eiders (*Somateria spp.*) suggest high predation pressure on macrobenthic fauna in a key wintering habitat in SW Greenland. Polar Biology 34(8):1105-1116.

Calbet, A., Riisgaard, K., Saiz, E., Zamara, S., Stedmon, C. and Nielsen, T.G. 2011. Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (Godthåbsfjord, west Greenland). Marine Ecology Progress Series 434:77-99.

Hansen, E.S. 2011. A contribution to the lichen flora of the Kobbefjord area, West Greenland. Botanica Lithuanica 17(4):151-156.

Hedeholm, R., Grønkjær, P. and Rysgaard, S. 2011. Energy content and fecundity of capelin (*Mallotus villosus*) along a 1500-km latitudinal gradient. *Marine Biology*. DOI 10.1007/s00227-011-1651-5.

Mortensen, J., Lennert, K., Bendtsen, J. and Rysgaard, S. 2011. Heat sources for glacial melt in a sub-Arctic fjord (Godthåbsfjord) in contact with the Greenland Ice Sheet. *Journal of Geophysical Research - Oceans*:116. Article Number: C01013. DOI: 10.1029/2010JC006528

Richter, A., Rysgaard, S., Dietrich, R., Mortensen, J. and Petersen, D. 2011. Coastal tides in West Greenland derived from tide gauge records. *Ocean Dynamics* 61:39-49.

Rysgaard, S., Bendtsen, J., Delille, B., Dieckmann, G., Glud, R.N., Kennedy, H., Mortensen, J., Papadimitriou, S., Thomas, D. and Tison, J-L. 2011. Sea ice contribution to air-sea CO<sub>2</sub> exchange in the Arctic and Southern Oceans. *Tellus* 63B, 823-830. Doi: 10.1111/j.1600-0889.2011.00571.x.

Søgaard, D.H., Hansen, P.J., Rysgaard, S. and Glud, R.N. 2011. Growth limitation of three Arctic sea ice algal species: effects of salinity, pH, and inorganic carbon availability. *Polar Biology*. DOI 10.1007/s00300-011-0976-3.

Tang, K.W., Glud, R.N., Glud, A., Rysgaard, S. and Nielsen, T.G. 2011. Copepod guts as biogeochemical hotspots in the sea: evidence from microelectrode profiling of *Calanus spp.* *Limnology and Oceanography* 56:666-672.

Tang, K.W., Nielsen, T.G., Munk, P., Mortensen, J., Møller, E.F., Arendt, K.E., Tønnesson, K. and Juul-Pedersen, T. 2011. Metazooplankton community structure, feeding rate estimates, and hydrography in a meltwater-influenced Greenlandic fjord. *Marine Ecology Progress Series* 434:77-90.

## Reports and books

Arendt, K.E. 2011. Plankton community structure in a West Greenland fjord – Influenced by the Greenland Ice Sheet. PhD thesis. Greenland Climate Research Centre and University of Copenhagen. 132 pp.

Jensen, L.M and Rasch, M. (eds.) 2011. NERO - Nuuk Ecological Research Operations, 4th Annual Report 2010. Roskilde, Aarhus University. 84 pp.

Jensen, S. 2011. Surface Air Temperature Gradients in Greenland – Identification, quantification and temperature modelling. Master thesis. Department of Geography and Geology, University of Copenhagen. 98 pp.

Pernosky, M., Hill, K., Hangaard, P. and Knudsen, M. 2011. Nuuk Basic Snow Survey 2011. Data Collection, Post Processing and Results. Asiaq Report 2011-33. 55 pp.

Pernosky, M.A., Hangaard, P., Larsen, M. 2011. Climate Basis Monitoring Program Nuuk Basic, 2010. Asiaq Report no. 2011-14. 36 pp.

Rasch, M., Schmidt, N.M. and Juul-Pedersen, T. (eds.) 2011. Greenland Ecosystem Monitoring Strategy and Working Programme 2011-15. DCE – Danish Centre for Environment and Energy, Aarhus University. 115 pp.

## General information

Lauridsen, T.L., Raundrup, K., Nymand, J. and Jeppesen, E. 2011. Sø-monitering for vurdering af klimaændringer i lav-arktisk ved Nuuk. *Vand & Jord* 18(4):116-119.

## 2010

### Peer-reviewed papers

Arendt, K.E., Nielsen, T.G., Rysgaard, S. and Tønneson, K. 2010. Differences in plankton community structure along Godthåbsfjord; from the Greenland Ice Sheet to offshore waters, SW Greenland. *Marine Ecology Progress Series* 401:49-62.

Blicher, M.E., Clemmesen, C., Rysgaard, S., Sejr, M.K. and Mempel, H. 2010. Seasonal and spatial variations in the RNA:DNA ratio and its relation to growth for sub-Arctic scallops. *Marine Ecology Progress Series* 407:87-98.

Blicher, M.E., Sejr, M.K. and Rysgaard, S. 2010. Seasonal growth variation of *Chlamys islandica* (Bivalvia) in the sub-Arctic Greenland is linked to food availability and temperature. *Marine Ecology Progress Series* 407:71-86.

Boye, T.K., Simon, M. and Madsen, P.T. 2010. Habitat use of humpback whales in Godthåbsfjord, West Greenland, with implications for commercial exploitation. *Journal of the Marine Biological Association of the United Kingdom*. doi:10.1017/S0025315410000755.

Glud, R.N., Berg, P., Hume, A., Batty, P., Blicher, M.E., Lennert, K. and Rysgaard, S. 2010. Benthic O<sub>2</sub> exchange rates across hard-bottom sediments as quantified by eddy correlation in a sub-Arctic fjord system. *Marine Ecology Progress Series* 417:1-12.

Hedeholm, R., Grønkjær, P., Rosing-Asvid, A. and Rysgaard, S. 2010. Variation in size and growth of West Greenland capelin (*Mallotus villosus*) along a latitudinal gradient. *ICES Journal of Marine Science*. Doi: 10.1093/icesjms/fsq024.

Mikkelsen, D.M. and Witkowski, A. 2010. Melting sea ice for taxonomic analysis: a comparison of four melting procedures. *Polar Research* 29:451-454.

Piña-Ochoa, E., Høgslund, S., Geslin, E., Cedhagen, T., Revsbech, N.P., Nielsen, L.P., Schweiger, M., Jorissen, F., Rysgaard, S. and Risgaard-Petersen, N. 2010. Widespread occurrence of nitrate storage and denitrification among Foraminifera and Gromiida. *Proceedings of the National Academy of Sciences* 107:1148-1153.

Post, E., Forchhammer, M.C., Tyler, N.J.C., Høye, T.T., Tamstorf, M.P., Christensen, T.R., Elberling, B., Gilg, O., Hik, D.S., Ims, R.A., Rysgaard, S., Stirling, I., Welker, J., Wookey, P.A., Schmidt, N.M. and Aastrup, P. 2010. Response to B. Griffith et al.'s E-Letter. 13 January 2010. *Science*.

Ruiz-Halpern, S., Sejr, M.K., Duarte, C.M., Krause-Jensen, D., Dalsgaard, T., Dachs, J. and Rysgaard, S. 2010. Air–water exchange and vertical profiles of organic carbon in a subarctic fjord. *Limnology and Oceanography* 55:1733-1740.

Sejr, M.K., Wlodarska-Kowalczyk, M., Legezynska, J. and Blicher, M.E. 2010. Macrobenthic species composition and diversity in the Godthaabsfjord system, SW Greenland. *Polar Biology* 33(4):421-431.

Søgaard, D.H., Kristensen, M., Rysgaard, S. and Glud, R.N. 2010. Dynamics of autotrophic and heterotrophic activity in Arctic first-year sea ice: Case study from Marlene Bight, SW Greenland. *Marine Ecology Progress Series* 419:31-45.

### Reports and books

Andreasen, R.H. 2010: Influences on a low arctic ecosystem from spatiotemporal variations of insolation, soil moisture and temperature. Master thesis at Department of Geography and Geology, University of Copenhagen. 60 pp.

Blicher, M.E. 2010. Structure and dynamics of marine macrozoobenthos in Greenland – and the link to environmental drivers. PhD thesis. Greenland Institute of Natural Resources & Department for Biology, University of Copenhagen. 162 pp.

Iversen, K.M. 2010. Climate Basis Monitoring Program Nuuk Basic, 2007-2008. Re-evaluation. Asiaq Report no. 2010-05. 11 pp.

Iversen, K.M. and Pernosky, M.A. 2010. Climate Basis Monitoring Program Nuuk Basic, 2009. Asiaq Report no. 2010-04. 36 pp.

Jensen, L. M. and Rasch, M. (eds.) 2010. NERO - Nuuk Ecological Research Operations. 3rd Annual Report 2009. Roskilde, National Environmental Research Institute, Aarhus University. 80 pp.

Pedersen, S.H. 2010: Global radiation in Nuuk and Kobbefjord SW Greenland. Bachelor thesis at Department of Geography and Geology, University of Copenhagen. 62 pp.

Rysgaard, S. 2010. Coastal Environments as a link between land and sea in the Arctic. IASC 08/09 Bulletin. International Arctic Science Committee. Rachold V., Bowden S. and Pit M. (eds). ISSN:1654-7594. pp 48-49.

Westergaard-Nielsen, A. 2010: Pielou's Index – Spatial temporal monitoring of phenology and snow cover dynamics in Arctic using unmodified digital cameras. Master thesis at Department of Geography and Geology, University of Copenhagen. 90 pp.

## **General information**

## **2009**

### **Peer-reviewed papers**

Blicher, M.E., Sejr, M.K. and Rysgaard, S. 2009. High carbon demand of dominant macrozoobenthic species indicates their central role in ecosystem carbon flow in a sub-arctic fjord. *Marine Ecology Progress Series* 383:127-140.

Glud, R.N., Wöfel, J., Karsten, U., Kühl, M. and Rysgaard, S. 2009. Benthic microalgal production in the Arctic: Applied methods and status of the current database. *Botanica Marina* 52:559-571.

Rysgaard, S., Bendtsen, J.B., Pedersen, L.T., Ramløv, H. and Glud, R.N. 2009. Increased CO<sub>2</sub> growth and decay in the Nordic Seas. *Journal of Geophysical Research Ocean* 114. C09011. Doi: 10.1029/2008JC005088.

Sejr, M.K., Blicher, M.E. and Rysgaard, S. 2009. Sea ice cover affects inter-annual and geographic variation in growth of the Arctic cockle uptake due to sea-ice *Clinocardium ciliatum* (Bivalvia) in Greenland. *Marine Ecology Progress Series* 389:149-158.

### **Reports and books**

Aastrup, P., Nymand, J., Raundrup, K., Lauridsen, T.L., Krogh, P.H., Schmidt, N.M., Illeris, L. and Ro-Poulsen, H. 2009. NuukBasic. Conceptual design and sampling procedures of the biological programme of NuukBasic. National Environmental Research Institute, Aarhus University. NERI Technical Report No. 745. 70 pp.

Andersen, A., Hangaard, P. and Iversen, K.M. 2009. Climate Basis Monitoring Program Nuuk Basic, 2007-2008. Asiaq Report no. 2009-10. 26 pp.

Iversen, K.M and Nauta, M. 2009. GPR Snow Cover Survey. Data collection and post processing procedures for Nuuk Basic 2009. Asiaq report. 13 pp.

Jensen, L. M. and Rasch, M. (eds.) 2009. NERO - Nuuk Ecological Research Operations. 2nd Annual Report 2008. Roskilde, National Environmental Research Institute, Aarhus University. 80 pp.

Kristensen, M. and Søgaard, D.H. 2009. O<sub>2</sub> dynamics in artificial and natural sea-ice: Influence by algae, bacteria and physical processes. Master Thesis, University of Copenhagen, Denmark. 127 pp.

## **General information**

Aastrup, P. 2009. SMS'ende rensdyr. Fønix 4.

Andersen, M.K. 2009. Forskning fra en isflage. Søren Rysgaard presents a science update on ice and climate. Ideer, Weekendavisen 33, 14 August.

Rysgaard, S. and Bøggild, C.E. 2009. Udbrud fra en isdæmmed sø. Sermitsiaq, 2 October.

Sejr, M.K., Christensen, P.B., Rysgaard, S., Glud, R.N. and Blicher, M.E. 2009. Livet på den arktiske havbund. *Aktuel Naturvidenskab* 1:13-17.

## **2008**

### **Peer-reviewed papers**

Mikkelsen, D.M., Rysgaard, S. and Glud, R.N. 2008. Microalgal composition and primary production in Arctic sea ice: a seasonal study from Kobbefjord (Kangerluarsunnguaq), West Greenland. *Marine Ecology Progress Series* 368:65-74.

Rysgaard, S., Glud, R.N., Sejr, M.K., Blicher, M.E. and Stahl, H.J. 2008. Denitrification activity and oxygen dynamics in Arctic sea ice. *Polar Biology* 31:527-537.

### **Reports and books**

Bay, C., Aastrup, P. and Nymand, J. The NERO line - a vegetation transect in Kobbefjord, West Greenland. NERI Technical Report No. 693, 2008.

Blicher, M.E., Josefson A., Batty P., Schiedek, D., Sejr, M.K., Hansen, J. and Rysgaard, S. 2008. Cruise Report Kanumas West 2008: Benthic fauna in ecological key areas along the coast of Northwest Greenland. Greenland Institute of Natural Resources, Nuuk and National Environmental Research Institute, Aarhus University, Denmark.

Jensen, L. M. and Rasch, M. (eds.) 2008. NERO - Nuuk Ecological Research Operations. 1st Annual Report 2007. Copenhagen, Danish Polar Center, Danish Agency for Science, Technology and Innovation, Ministry of Science, Technology and Innovation. 112 pp.

Rysgaard, S., Frederiksen, M., Mikkelsen, D.M., Juul-Pedersen, T., Arendt, K.E., Krause-Jensen, D., Sejr, M.K. and Blicher, M. 2008. MarineBasic Nuuk – Sampling manual for the field programme.

## **General information**



Arendt, K., Juul-Pedersen, T. and Batty, P. 2008. Forskning i Arktis – et varmt emne. INUTEK 23 oktober.

Rasch, M. 2008. En ny feltstation i Grønland. Polarfronten 4:3.

## 2007

### Peer-reviewed papers

Berg, P., Swaney, D., Rysgaard, S., Thamdrup, B. and Fossing, H. 2007. A fast numerical solution of the general mass-conservation equation for solids and solutes in aquatic sediments. *Journal of Marine Research* 65:317-343.

Blicher, M., Rysgaard, S. and Sejr, M. K. 2007. Growth and production of the sea urchin, *Strongylocentrotus droebachiensis* (O.F. Müller, 1776), in a high arctic fjord and growth along a climate gradient (64 – 77°N). *Marine Ecology Progress Series* 341:89-102.

Rysgaard, S., Glud, R. N., Sejr, M. K., Bendtsen, J. and Christensen, P. B. 2007. Inorganic carbon transport during sea ice growth and decay: A carbon pump in polar seas. *Journal of Geophysical Research* 112: C03016. doi: 10.1029/2006jc003572.

Rysgaard, S., Glud, R. N., Sejr, M. K., Blicher, M. E. and Stahl, H. J. 2007. Denitrification activity and oxygen dynamics in Arctic sea ice. *Polar Biology* 31:527-537.

Schmid, M.C., Risgaard-Petersen, N., van de Vossenberg, J., Langezaal, S., Kuypers, M.M.M., Lavik, G., Brandsma, J., Damsté, J.S., van der Zwaan, B., Hulth, S., Thamdrup, B., Canfield, D., Dalsgaard, T., Rysgaard, S., Sejr, M. K., Strous, M., op den Camp, H. J. M and Jetten, M. S. M. 2007. Anaerobic Ammonium Oxidizing Bacteria in Marine Environments: Widespread Occurrence but low Diversity. *Environmental Microbiology* 9(6):1476-1484.

Sejr, M. K., Nielsen, T.G., Rysgaard, S., Risgaard-Petersen, N., Sturluson, M. and Blicher, M. 2007. The fate of pelagic organic carbon and importance of the benthic-pelagic coupling in a shallow cove in Disko Bay, west Greenland. *Marine Ecology Progress Series* 341:75-88.

### Reports and books

Risgaard-Petersen, N. and Rysgaard, S. 2007. Biogeochemistry and microbiology. Report on R/V Maria S. Merian Cruise MSM 5/03 15 June to 4 July. 169 pp.

Rysgaard, S., Frandsen, M. and Arendt, K. 2007. "Exchange" - udveksling mellem Godthåbsfjord og hav. Report to DANCEA (the Danish Cooperation for the Environment in the Arctic) under the Danish Ministry of Environment. 10 pp.

Rysgaard, S., Frederiksen, M. and Arendt, K. 2007. Nuuk Basic: The MarineBasic programme. Report 2005-06. Report to DANCEA (the Danish Cooperation for the Environment in the Arctic) under the Danish Ministry of Environment. 60 pp.

### General information

Bernarroch, J. 2007. Sydlig overvågning. *Polarfronten*, 4:14.

From, L. 2007. Smeltet is truer klimaet. *Jyllandsposten*, 16 January.

Jastrup, M. 2007. Det kolde Nord ind i varmen. *Politiken*, 1 March.

Mikkelsen, D. M. 2007. Havisens alger. *Urt* 31 (2):64-67.

Rysgaard, S., Mikkelsen, N., Kuipers, A., Jensen, J. B. and Risgaard-Petersen, N. 2007. Forskere på jagt i havbunden efter fortidens klima. *Atuagadliutit*, 19 July.

Rysgaard, S., Mikkelsen, N., Kuipers, A., Jensen, J. B. and Risgaard-Petersen, N. 2007. Fortidens klima hentes op fra havet. *Ingeniøren*, 17 August.

Rysgaard, S. 2007. Viaje historica llega de Dianamarca Chilenos se suman al viaje. *La Estrella*, Chile, 9 February.

Struck, D. 2007. Climate change in Greenland; positive and negative effects. *The Washington Post*, 20 May.

## 2006

### Peer-reviewed papers

Cook, P., Wenzhöfer, F., Rysgaard, S., Galaktionov, O., Eyre, B., Cornwell, J., Huettel, M. and Glud, R. N. 2006. Quantifying denitrification in permeable sediments: Insights from a two-dimensional simulation analysis and experimental data. *Limnology and Oceanography Methods* 4:294-307.

Forchhammer, M. C., Rasch, M. and Rysgaard, S. 2006. A conceptual framework for monitoring climate effects and feedback in arctic ecosystems. *NERO 1st Annual Report*, 2008.

Roeselers, G., Norries, T. B., Castenholz, R. W., Rysgaard, S., Glud, R. N., Kühl, M. and Muyzer, G. 2006. Diversity of phototrophic bacteria in microbial mats from arctic hot springs (Greenland). *Environmental Microbiology*. Doi: 10.1111/j.1462-2920.2006.01103.x.

### General information

Philbert, P. 2006. En vestgrønlandsk aflægger. *Polarfronten*, 4:15.

Rysgaard, S. 2006: Klimap nunat immallu issittut avannarlerni allanngorarnera. *Climate change in the Arctic*. INUTEK - Katuaq, 19 January.

Lauridsen, T.L., Raundrup, K., Nymand, J. and Jeppesen, E. 2011. Sø-monitering for vurdering af klimaændringer i lav-arktisk ved Nuuk. *Vand & Jord* 18(4): 116-119.