

Curriculum Vitae

Name: Thomas Juul-Pedersen
Position: Research scientist, Ph.D.
Born: 1. May 1973
Nationality: Danish
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Research areas and methodology

Pelagic remineralization and sinking flux
Pelagic and sea ice biogeochemistry
Pelagic and sea ice primary production
Pelagic food web structure
Oceanography and climate impact

Methodology: Water and sea ice analysis of nutrients, biomass, primary production, sinking flux and organisms; including experience in mass spectrometry, microscopic analysis, zooplankton and algae experiments and benthic-pelagic exchange

Education and employments

2007-present Research Scientist & program manager at GCRC
2004-2007 Ph.D. in Biological Oceanography at University of Quebec at Rimouski, Canada
2002-2003 Research assistant (part time) at National Environmental Research Institute, Denmark
2001-2003 M. Sc. in Biology at Copenhagen University, Denmark
1999-2003 School educator and project developer (part time) at Denmark's Aquarium
1996-2001 B. Sc. in Biology at Copenhagen University, Denmark

Field experience

2007-present Monthly monitoring programs and research projects
2010 Fyllas Banke and Godthåbsfjord, West Greenland (3 weeks onboard R/V 'Dana')
2010 Kapisigdlit, West Greenland (2 weeks long sea ice campaign)
2009 Daneborg, Northeast Greenland (3 weeks long field campaign)
2008 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard R/V 'Dana')
2004 Beaufort Sea, Arctic Canada (6 months aboard a research icebreaker 'CCGS Amundsen')
2002 Resolute, Arctic Canada (1 month at a sea ice camp)
2001 Qeqertarsuaq, Greenland (1 month at a field station)
2000 Qeqertarsuaq, Greenland (1 month at a field station)

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Oral presentations

2010 French Days in Nuuk – Open scientific seminar (Greenland)
2010 Arctic Frontiers 2010 (Norway)
2010 NetIce meeting (Norway)
2009 In the Eye of Climate Change (double presentation) (Denmark)
2009 Polar Science Day (Denmark)
2009 Torsdagsklubben (Greenland)
2009 A climate Day (school education) (Greenland)
2009 Greenland Climate Research Centre Kick-off meeting (Denmark)
2009 Nuuk Climate Days (Greenland)
2009 IPY-Polar Oceans Day (school education) (Greenland)
2008 InuTek public event (Greenland)
2008 Arctic Change 2008 (Canada)
2006 American Society of Limnology and Oceanography (Canada)
2006 Canadian Arctic Shelf Exchange Study Meeting (Canada)
2005 Gordon Research conference on Polar Marine Science (USA)
2004 Canadian Arctic Shelf Exchange Study Workshop (Canada)
2003 Arktisk Biologisk Møde (Denmark)
2002 Nordic Arctic Research Programme (Latvia)
2002 Dansk Havforskermøde (Denmark)

Peer review publications

Juul-Pedersen T, Michel C., Gosselin M. Sinking export of particulate organic material from the euphotic zone in the eastern Beaufort Sea. *Marine Ecology Progress Series. In Press*

Juul-Pedersen T, Michel C, Gosselin M (2008). Influence of the Mackenzie River on the sinking export of particulate material on the shelf. *Journal of Marine Systems*, doi:10.1016/j.jmarsys.2008.02.001

Juul-Pedersen T, Michel C, Gosselin M (2008). Seasonal changes in the sinking export of particulate material, under first-year sea ice on the Mackenzie Shelf (western Canadian Arctic). *Marine Ecology Progress Series*, Vol. 353, p. 13-25

Renaud P, Riedel A, Michel C, Morata N, Gosselin M, Juul-Pedersen T, Chiuchiolo A (2007). Seasonal variation in benthic community oxygen demand: A response to an ice algal bloom in the Beaufort Sea, Canadian Arctic?. *Journal of Marine Systems*, Vol. 67, p. 1-12

Juul-Pedersen T, Nielsen TG, Michel C, Møller EF, Tiselius P, Thor P, Olesen M, Selander E, Gooding S (2006). Sedimentation following the spring bloom in Disko Bay, West Greenland, with special emphasis on the role of copepods. *Marine Ecology Progress Series*, Vol. 314, p. 239-255

Thor P, Nielsen TG, Tiselius P, Juul-Pedersen T, Michel C, Møller EF, Dahl K, Selander E, Gooding S (2005). Post-spring bloom community structure of pelagic copepods in the Disko Bay, Western Greenland. *Journal of Plankton Research*, Vol. 27(4), p. 341-356

Juul-Pedersen T, Rysgaard S, Mikkelsen DM, Arendt KE, Frederiksen MS. Seasonal and interannual patterns of vertical sinking export in a fjord in connected to the Greenland ice sheet (*tentative title*). *In prep*

Curriculum Vitae

Juul-Pedersen T, Nielsen TG, Møller EF, Arendt K, Tang K, Rysgaard S. Sinking export and pelagic remineralisation of organic material in an sub-arctic coastal system(*tentative title*). *In prep*

Rysgaard S, Juul-Pedersen T, Sørensen LL, Arendt KE, Mikkelsen DM, Mortensen J
High air-sea $p\text{CO}_2$ uptake rates in near shore areas and shelf areas of Southern Greenland:
Temporal (2005-2009) and spatial variability(*tentative title*). *In prep*

Mikkelsen DM, Rysgaard S, Arendt KE, Frederiksen MS, Juul-Pedersen T. Seasonal patterns in primary production and copepod community structure in a subarctic pelagic ecosystem – with a view to the past (*tentative title*). *In prep*

Book chapters

Michel Gosselin, Sonia Brugel, Serge Demers, Thomas Juul-Pedersen, Pierre Larouche, Bernard LeBlanc, Christine Michel, Christian Nozais, Michel Poulin, Neil Price, Andrea Riedel Niemi, Magdalena Róžańska, Kyle Simpson, Jean-Éric Tremblay (2008): 4.0 Light, nutrients and primary production. *In*: Louis Fortier, David Barber, Josee Michaud (Eds): On Thin Ice: A synthesis of the Canadian Arctic Shelf Exchange Study (CASES). 2008. Aboriginal Issue Press, University of Manitoba, Winnipeg, Manitoba

Reports and thesis

Juul-Pedersen T, Rysgaard S, Batty P, Mortensen J, Retzel A, Nygaard R, Burmeister A, Søgaard DH, Martinsen W, Sejr MK, Blicher ME, Krause-Jensen D, Christensen PB, Marbà N, Olesen B, Labansen AL, Rasmussen LM, Witting L, Simon M, Ugarte F: The MarineBasis Programme. *In*: Jensen LM, Rasch M (eds). Nuuk Ecological Research Operations, 3rd Annual Report, 2009, National Environmental Research Institute, Aarhus University, Denmark. *In press*

Sejr M, Rysgaard S., Mikkelsen D, Hjorth M, Frandsen E, Lennert K, Juul-Pedersen T, Krause-Jensen D, Christensen PB, Batty P, Zackenberg Basic: The MarineBasis Programme. *In*: Jensen LM, Rasch M (eds). Zackenberg Ecological Research Operations, 15th Annual Report, 2009, National Environmental Research Institute, Aarhus University, Denmark. *In press*

Juul-Pedersen T, Rysgaard S, Batty P, Mortensen J, Retzel A, Nygaard R, Burmeister A, Mikkelsen D, Sejr M, Blicher M, Krause-Jensen D, Christensen PB, Labansen A, Rasmussen LM, Simon M, Boye T, Madsen P, Ugarte F, NuukBasic: The MarineBasis Programme. *In*: Jensen LM, Rasch M (eds)., 2009. Nuuk Ecological Research Operations, 2nd Annual Report, 2008, National Environmental Research Institute, Aarhus University, Denmark

Sejr M, Rysgaard S., Mikkelsen D, Hjorth M, Frandsen E, Lennert K, Juul-Pedersen T, Krause-Jensen D, Christensen PB, Batty P, Zackenberg Basic: The MarineBasis Programme. *In*: Jensen LM, Rasch M (eds)., 2009. Zackenberg Ecological Research Operations, 14th Annual Report, 2008, National Environmental Research Institute, Aarhus University, Denmark

Mikkelsen DM, Rysgaard S, Mortensen J, Retzel A, Nygaard R, Juul-Pedersen T, Sejr MK, Blicher ME, Krause-Jensen D, Christensen PB, Labansen A, Egevang C, Witting L, Boye TK, Simon M and Frederiksen M (2008): Nuuk Basic: The MarineBasic Programme 2007. *In*: Jensen, LM and Rasch M (Eds.) 2008. Nuuk Ecological Research Operations, 1st Annual Report, 2007. - Copenhagen, Danish Polar Centre, Danish Agency for Science, Technology and Innovation, Ministry of Science, Technology and Innovation, 2008

Curriculum Vitae

Juul-Pedersen T (2007) Spatial and temporal patterns of sedimentation below the euphotic zone in the Canadian Beaufort Sea. PhD Thesis, The University of Quebec at Rimouski, Canada. p. 145

Juul-Pedersen T (2003) Betydningen af vandlopper for sedimentationen i et arktisk pelagisk økosystem. Master thesis, University of Copenhagen, Denmark. p. 67