

# Curriculum Vitae

## Personal information

Name: Thomas Juul-Pedersen  
Position: Research Scientist & Education Coordinator, Ph.D.  
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## Education and employments

2015-present Education Coordinator at GINR, Greenland  
2007-present Research Scientist & Program Manager at GCRC, Greenland  
2014-2015 Postgraduate Teacher Training Course at University of Greenland  
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 University of Copenhagen, Denmark  
1999-2003 School educator and project developer (part time) at Denmark's Aquarium, Denmark  
1996-2001 B. Sc. in Biology at University of Copenhagen, Denmark

## Areas of research interests (marine biology)

Pelagic primary production and carbon transfer  
Pelagic sinking flux and remineralization  
Pelagic food web structure, seasonal succession and biodiversity  
Annual and interannual patterns and variability in marine ecosystems

## Positions

2013-14 Co-chair of Marine Steering Group of CBMP-Marine  
2012-present Greenland representative of Marine Steering Group of CBMP-Marine  
2012-present Sea Ice Biota Expert Network of CBMP-Marine  
2009-present Program manager of the MarineBasis-Nuuk and –Zackenbergl (part of GEM)  
2007-present Working Group of Greenland Ecosystem Monitoring (GEM)

## Peer review publications

Leu E, Mundy CJ, Assmy P, Campbell K, Gabrielsen T, Gosselin M, Juul-Pedersen T, Gradinger R (*Accepted*). Arctic spring awakening – steering principles behind the phenology of vernal ice algae blooms. *Progress in Oceanography*

Krawczyk DW, Arendt KE, Juul-Pedersen T, Sejr MK, Stedmon C, Jakobsen HH (*Accepted*)  
Spatial and temporal distribution of planktonic protists (>20µm) in the East Greenland fjord and offshore waters. *Marine Ecology Progress Series*

Krawczyk DW, Witkowski A, Juul-Pedersen T, Arendt K, Mortensen J, Rysgaard S (2015).  
Microplankton succession in a SW Greenland tidewater glacial fjord influenced by coastal inflows and run-off from the Greenland Ice Sheet. *Polar Biology*, DOI 10.1007/s00300-015-1715-y

Juul-Pedersen T, Arendt KE, Mortensen J, Blicher M, Schröder DS, Rysgaard S (2015) Seasonal and interannual phytoplankton production in a sub-Arctic tidewater outlet glacier fjord, SW Greenland. *Marine Ecology Progress Series*, Vol. 524: p. 27-38

## *Curriculum Vitae*

- Murray C, Markager S, Stedmon CA, Juul-Pedersen T, Sejr MK, Bruhn A (2015) The influence of glacial melt water on bio-optical properties in two contrasting Greenland fjords. *Estuarine, Coastal and Shelf Science*, Vol. 163B, p. 72-83
- Riisgaard K, Swalethorp R, Kjellerup S, Juul-Pedersen T, Nielsen TG (2014) Trophic role and top-down control of a subarctic protozooplankton community. *Marine Ecology Progress Series*, Vol. 500: p. 67-82
- Søgaard DH, Thomas DN, Rysgaard S, Glud RN, Norman L, Kaartokallio H, Juul-Pedersen T, 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
- Arendt KE, Juul-Pedersen T, Mortensen J, Blicher ME (2013). 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*, Vol. 35(1), p. 105-120
- Rysgaard S, Mortensen J, Juul-Pedersen T, Sørensen LL, Lennert K, Søgaard DH, Arendt KE, Blicher ME, Sejr MK (2012). High air-sea CO<sub>2</sub> uptake rates in nearshore and shelf areas of Southern Greenland: Temporal and spatial variability. *Marine Chemistry*, Vol. 128-129, p. 26-33
- Tang KW, Nielsen TG, Munk P, Mortensen J, Møller EF, Arendt KE, Tønnesson K, Juul-Pedersen T (2011) Metazooplankton community structure, feeding rate estimates, and hydrography in a meltwater-influenced Greenlandic fjord. *Marine Ecology Progress Series*, Vol. 434:77-90
- Juul-Pedersen T, Michel C, Gosselin M (2010) Sinking export of particulate organic material from the euphotic zone in the eastern Beaufort Sea. *Marine Ecology Progress Series*, Vol. 410:55-70
- 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

## *Curriculum Vitae*

Christensen TR, Lund M, Mastepanov M, Rysgaard S, Tamstorf MP, Sejr MK, Juul Pedersen T (*in prep.*) Arctic carbon storage and greenhouse gas exchange – a measurement based integrated assessment of two coupled terrestrial and marine ecosystems

Sørensen HL, Meire L, Juul-Pedersen T, Meysmann F, Rysgaard S, Thamdrup B, Glud RN (*in prep.*) Annual carbon cycling in a low-latitude Arctic Fjord, Kobbefjord (Kangerluarsunnguaq) Greenland

Mortensen J, Rysgaard S, Arendt KE, Juul-Pedersen T, Søgaard DH, Blicher ME, Bendtsen J (*in prep.*) Linking seasonal hydrographic time series from the outer and inner part of a Southwest Greenland tidewater outlet glacier sill fjord

Webster CN, De Silva T, Wiedmann I, Ferreria S, Juul-Pedersen T, Varpe Ø, Gislason A, Saiz E, Calbet A, Sainmont J, Agersted MD, Brierley AS, Nielsen TG (*in prep.*) Fate of an Arctic spring bloom

Arendt KE, Agersted MD, Blicher M, Juul-Pedersen T, Sejr MK (*in prep.*) Small copepod taxa as indicator species of glacier fjord or shelf influenced waters in High Arctic East Greenland

### ***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, Arendt KE, Mortensen J, Krawczyk D, Rysgaard S, Retzel A, Nygaard R, Burmeister AD, Krause-Jensen D, Marbà N, Olesen B, Sejr MK, Blicher ME, Meire L, Geertz-Hansen O, Labansen AL, Boye T and Simon M. The MarineBasis programme 2013. In Jensen LM and Christensen TR (eds.) (2014). Nuuk Ecological Research Operations, 7th Annual Report, Aarhus University, DCE – Danish centre for Environment and Energy. 94pp.

Sejr MK, Juul-Pedersen T, Frandsen E and Lennert I. The MarineBasis Programme 2013. In Jensen LM, Christensen TR and Schmidt NM (ed.) (2014). Zackenberg Ecological Research Operations 19th Annual Report, 2013. Aarhus University, DCE – Danish Centre for Environment and Energy. 130 pp.

Juul-Pedersen T, Watkins J (2014). Circumpolar Biodiversity Monitoring Program Marine Steering Group (2014). Arctic Marine Biodiversity Monitoring Plan Annual Plan 2013: Annual Report on the Implementation of the Circumpolar Biodiversity Monitoring Program's Arctic Marine Biodiversity Monitoring Plan (CBMP-Marine Plan). CAFF Monitoring Report No.12. CAFF International Secretariat, Akureyri, Iceland. ISBN: 978-9935-431-33-2

Juul-Pedersen T (2014). Arctic Marine Biodiversity Monitoring Plan Greenland, 2013 Implementation. National one page update. Conservation of Arctic Flora and Fauna (CAFF).

Juul-Pedersen T, Arendt KE, Mortensen J, Retzel A, Nygaard R, Burmeister A, Martinsen W, Sejr MK, Blicher ME, Krause-Jensen D, Olesen B, Labansen AL, Rasmussen LM, Witting L, Boye T,

## *Curriculum Vitae*

Simon M and Rysgaard S: The MarineBasis Programme. In: Jensen LM, Rasch M (eds) (2012). Nuuk Ecological Research Operations, 5th Annual Report, 2011, Aarhus University, DCE–Danish Centre for Environment and Energy, 84 pp.

Sejr M, Juul-Pedersen T, Frandsen E, Blicher M, Lennert I, Zackenberg Basic: The MarineBasis Programme. In: Jensen LM, Rasch M (eds) (2012). Zackenberg Ecological Research Operations, 17th Annual Report, 2011, Aarhus University, DCE–Danish Centre for Environment and Energy, 120 pp.

Juul-Pedersen T, Rysgaard S, Batty P, Mortensen J, Arendt KE, Retzel A, Nygaard R, Burmeister A, Sjøgaard DH, Martinsen W, Sejr MK, Blicher ME, Krause-Jensen D, Christensen PB, Marbà N, Olesen B, Labansen AL, Rasmussen LM, Witting L, Boye T and Simon M: The MarineBasis Programme. In: Jensen LM, Rasch M (eds) (2011). Nuuk Ecological Research Operations, 4th Annual Report, 2010, Aarhus University, DCE–Danish Centre for Environment and Energy, 84 pp.

Sejr M, Juul-Pedersen T, Rysgaard S., Hjorth M, Lennert K, Frandsen E, Mikkelsen PS, Martinsen W, Zackenberg Basic: The MarineBasis Programme. In: Jensen LM, Rasch M (eds) (2011). Zackenberg Ecological Research Operations, 16th Annual Report, 2010, Aarhus University, DCE–Danish Centre for Environment and Energy, 114 pp.

Juul-Pedersen T, Rysgaard S, Batty P, Mortensen J, Retzel A, Nygaard R, Burmeister A, Sjøgaard 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) (2010). Nuuk Ecological Research Operations, 3rd Annual Report, 2009, 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) (2010). Zackenberg Ecological Research Operations, 15th Annual Report, 2009, National Environmental Research Institute, Aarhus University, Denmark.

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

### ***Scientific oral presentations***

2014 CBMP Marine Annual Meeting – Hosting & chairing the meeting (Greenland)  
2014 Arctic Biodiversity Congress – Session chair (Norway)  
2013 CBMP Marine Annual Meeting – Chairing the meeting (Iceland)  
2013 45<sup>th</sup> International Liège Colloquium on Ocean Dynamics (Belgium)  
2013 Arctic Frontiers (Norway)  
2012 Icelandic Greenlandic Days (Greenland)  
2011 Dansk Havforskermøde 2011 (Denmark)  
2011 ESSASS Open Science Meeting 2011 (USA)  
2011 French Days in Nuuk 2011 (Greenland)  
2011 Arctic Frontiers 2011 – Double presentation (Norway)  
2010 Greenland Climate Research Centre – First Annual Meeting (Denmark)  
2010 SINTEF seminar - Oil Spill response for Arctic and ice-covered waters (Greenland)  
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 Greenland Climate Research Centre Kick-off meeting (Denmark)  
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)

### ***Public presentations, teaching and public outreach***

2015 Newspaper & TV Interview – Associated Press (Greenland)  
2015 Teaching university course – Course & fieldwork ‘Arctic Marine Ecosystems’ (Greenland)  
2014 Environmental Minister – Presentation of GEM Monitoring (Greenland)  
2013 Interview to documentary on climate change “Gatekeepers of the Arctic” (Greenland)  
2013 Deputy Minister and other foreign governmental officials (Greenland)  
2013 Oak Foundation (Greenland)  
2013 Rigsrevisionen (Greenland)  
2012 Interview to Sermitsiaq news paper – Climate change and east coast cruise (Greenland)  
2012 Presentation, guide and TV interview – Danish/Greenlandic ministers (Greenland)  
2012 PhD course in Arctic Marine Ecosystems – Teaching, supervisor, presentation (Greenland)  
2010 Nordic Climate Days – School education on climate change and research (Greenland)  
2010 Go North: World resources - Live internet chat with schools worldwide (Greenland)  
2009 In the Eye of Climate Change – Double public presentations (Denmark)  
2009 IPY-Polar Science Day – Public presentation (Denmark)  
2009 Thursdays club – Public presentation (Greenland)

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- 2009 A Climate Day – School education on climate change and research (Greenland)
- 2009 Nuuk Climate Days – Public presentation (Greenland)
- 2009 IPY-Polar Oceans Day – School education on climate change in the oceans (Greenland)
- 2008 InuTek – Public presentation and guide (Greenland)

### ***Fieldwork experience***

- 2007-present Godthåbsfjord, West Greenland - Monthly monitoring and research projects
- 2015 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard R/V 'Sanna')
- 2014 Daneborg, Northeast Greenland (2 x 3 weeks at field station)
- 2014 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard R/V 'Sanna')
- 2013 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard R/V 'Sanna')
- 2013 Daneborg, Northeast Greenland (3 weeks at field station)
- 2012 East Greenland Transect Study (2 weeks onboard R/V 'Dana')
- 2012 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks cruise leader on R/V 'Sanna')
- 2011 Daneborg, Northeast Greenland (3 weeks at field station)
- 2011 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks cruise leader on 'Adolf Jensen')
- 2010 Fyllas Banke and Godthåbsfjord, West Greenland (3 weeks onboard R/V 'Dana')
- 2010 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks cruise leader on 'Masik Tender')
- 2010 Kapisigdlit, West Greenland (2 weeks sea ice campaign)
- 2009 Daneborg, Northeast Greenland (3 weeks at field station)
- 2009 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard 'Masik Tender')
- 2008 Fyllas Banke and Godthåbsfjord, West Greenland (2 weeks onboard R/V 'Dana')
- 2004 Beaufort Sea, Arctic Canada (6 month onboard the research icebreaker 'CCGS Amundsen')
- 2002 Resolute, Arctic Canada (1 month at a ice camp)
- 2001 Qeqertarsuaq, Greenland (1 month at a field station)
- 2000 Qeqertarsuaq, Greenland (1 month at a field station)