AARHUS UNIVERSITY

AU Interdisciplinary Research Centres – Annual Report and Evaluation

AU Interdisciplinary Research Centres is an internal funding scheme of Aarhus University targeted at the development of international competitive research centres that are driven by collaboration between at least two of the university's main areas: "Health", "Business and Social Sciences", "Arts" and "Science and Technology". The first centres were established in 2012 and run for a period of 5 years.

AU Interdisciplinary Research Centres will be assessed twice through:

- a midterm internal evaluation by the university's cross-disciplinary research committee on the basis of the first two annual reports.
- a final external evaluation at the end of the centre's lifetime.

Evaluations will be based on the following key indicators:

- degree of international competitiveness
- quality and breadth of interdisciplinarity
- quality and breadth of talent development

Each centre should submit an annual report, making use of the available form. The annual report should be sent electronically to Knud Warming, AU Research and Talent, warming@au.dk. The deadline for submission is 31 March each year during the funding period, starting in 2013.

The use of the report
The annual report and evaluations are an instrument for the university, and more specific for the cross-disciplinary research committee, to follow the development and results of the Interdisciplinary Centres. The report will also be used to communicate to external stakeholders the strengths of interdisciplinary research conducted at the university. Internally, the annual report and evaluations can be used as tool for evaluating the status of the centre in the light of the initial research programme and for adjusting the programme and the organizational framework of the centre, if necessary.

Language
The annual report should be written in English and the language should be understandable for scientists with different disciplinary backgrounds

Annual Report AU Interdisciplinary Research Centres

1. **Publications.** *List of peer reviewed publications that are the result of research funded under the scheme of Interdisciplinary Research Centres*

Please note that the publications often involve collaboration across several departments within a faculty.

	Publications *(Please list all authors)*	**Main areas of Aarhus University involved**
1.	Agudo A, Aronson KJ, Bonefeld-Jørgensen EC, Cocco P, Cogliano V, Cravedi J-P, Esch H, Hopf NB, Fiedler H, James MO, Glauert HP, Johansson N, Leon Guo Y-L, Le Bizec B, Herbert RA, Ludewig G, Machala M, Tryphonas H, Merletti F, Vermeulen R, Narbonne J-F, Vorkamp K, Robertson LW, Walker N, Ruder A & Carpenter DO 2015. POLYCHLORINATED AND POLYBROMINATED BIPHENYLS: IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS 2015 International Agency for Research on Cancer. 513 s.	ST
2.	Aigars J, Poikāne R, Dalsgaard T, Eglīte E, Jansons M 2015. Biogeochemistry of N, P and SI in the Gulf of Riga surface sediments: Implications of seasonally changing factors. Cont. Shelf Res. 105**:** 112-120, dx.doi.org/10.1016/j.csr.2015.06.008	ST
3.	AMAP Assessment 2015: Human Health in the Arctic. Arctic Monitoring and Assessment Programme (AMAP), Oslo, Norway. vii + 165 pp. ISBN – 978-82-7971-093-6.	Health
4.	AMAP Assessment 2015: Methane as an Arctic climate forcer. Arctic Monitoring and Assessment Programme (AMAP), Oslo, Norway. vii + 139 pp. ISBN – 978-82-7971-091-2.	ST
5.	Anderson HB, Madsen J, Woodin SJ & van der Wal R 2015.	ST

	Where to settle in a rapidly expanding bird colony: a case study on colony expansion in High Arctic breeding geese. Behavioral Ecology and Sociobiology 69: 325-334. DOI: 10.1007/s00265-014-1845-1	
6.	Attard KM, Stahl H, Kamenos NA, Turner G, Burdett HL, Glud RN 2015. Benthic oxygen exchange in a live coralline algal bed and an adjacent sandy habitat: an eddy covariance study. Marine Ecology Progress Series 535:99-115. doi:10.3354/meps11413	ST
7.	Babb DG, Galley RJ, Barber DG & Rysgaard S 2015. Physical processes contributing to an ice-free Beaufort Sea during September 2012. Journal of Geophysical Research – Oceans, 120, doi:10.1002/2015JC010756.	ST
8.	Barber DG, Hop H, Mundy CJ, Else B, Dmitrenko I, Tremblay J-E, Ehn JK, Assmy P, Candlish L, Rysgaard S 2015. The rapidly changing Arctic marginal sea ice zone and its physical and biogeochemical implications. Progress in Oceanography. doi:10.1016/j.pocean.2015.09.003.	ST
9.	Barber DG, Hop H, Mundy CJ, Else B, Dmitrenko I, Tremblay J-E, Ehn JK, Assmy P, Candlish L, Rysgaard S 2015. Selected physical, biological and biogeochemical implications of a rapidly changing Arctic Marginal Ice Zone. Progress in Oceanography. 139:122-150. http://dx.doi.org/10.1016/j.pocean.2015.09.003	ST
10.	Bechshoft T, Derocher AE, Richardson E, Mislan P, Lunn NJ, Sonne C, Dietz R, Janz DM & St. Louis VL 2015. Mercury and cortisol in Western Hudson Bay polar bear hair. Ecotoxicology 24:1315–1321. DOI 10.1007/s10646-015-1506-9	ST
11.	Bechshoft T, Sonne C, Jakobsen J, Rigét FF, Born EW,	ST

	Letcher RJ, Jenssen BM & Dietz R 2015. Vitamins A and E in liver, kidney, and whole blood of East Greenland polar bears sampled 1994–2008: reference values and temporal trends. Polar Biol DOI 10.1007/s00300-015-1830-9	
12.	Bendtsen J, Mortensen J, Rysgaard S 2015. Modelling subglacial discharge and its influence on ocean heat transport in arctic fjords. Ocean Dynamics. DOI 10.1007/s10236-015-0883-1.	ST
13.	Bendtsen J, Mortensen J, Lennert K, Rysgaard S 2015. Heat sources for glacial ice melt in a west Greenland tidewater outlet glacier fjord: The role of subglacial freshwater discharge, Geophys. Res. Lett, 42	ST
14.	Bjerregaard-Olesen C & Bonefeld-Jørgensen EC 2015. Receptor research on xenohormone effects of human serum extracts containing the actual mixture of perfluorinated alkyl acids: a short review. Receptor & Clinical Investigation, 2(3) 2015	Health
15.	Bjerregaard-Olesen C, Bossi R, Hammer Bech B & Bonefeld-Jørgensen EC 2015. Extraction of Perfluorinated Alkyl Acids from Human Serum and their Combined Xenoestrogenic Transactivity: a Method Development. Chemosphere 129:232-8	Health
16.	Bjerregaard-Olesen C, Ghisari M, Kjeldsen LS, Wielsøe M & Bonefeld-Jørgensen EC 2015. Combined estrogen and androgen receptor transactivity of perfluorinated alkyl acids and sulfated steroids extracted from human serum. Steroids. 2015 Dec 5.	Health
17.	Boertmann D, Kyhn LA, Witting L & Heide-Jørgensen MP 2015. A hidden getaway for bowhead whales in the Greenland Sea. Polar Biology 38:1315-1319.	ST

18.	Boertmann D, Olsen K & Nielsen RD 2015. Geese in Northeast and North Greenland as recorded on aerial surveys in 2008 and 2009. Dansk Ornitologisk Forenings Tidsskrift 109(4):206.	ST
19.	Bossi R, Dam M & Riget FF 2015. Perfluorinated alkyl substances (PFAS) in terrestrial environments in Greenland and Faroe Islands. Chemosphere 129:164–169. http://dx.doi.org/10.1016/j.chemosphere.2014.11.044	ST
20.	Bowden JJ, Eskildsen A, Hansen RR, Olsen K, Kurle CM, Høye TT. 2015. High-Arctic butterflies become smaller with rising temperatures. Biol. Lett.11: 20150574. http://dx.doi.org/10.1098/rsbl.2015.0574	ST
21.	Bowden JJ, Hansen RR, Olsen K & Høye TT 2015. Habitat-specific effects of climate change on a low-mobility Arctic spider species. Polar Biology 38:559-568. DOI 10.1007/s00300-014-1622-7	ST
22.	Bubandt NO, Willerslev R 2015. The Dark Side of Empathy: Mimesis, Deception, and the Magic of Alterity. Comparative Studies in Society and History, Vol. 57, No. 1, 2015, p. 5-34.	Arts
23.	Buntgen U, Hellmann L, Tegel W, Normand S, Myers-Smith I, Kirdyanov A, Nievergelt D & Schweingruber FH 2015. Temperature-induced recruitment pulses of Arctic dwarf shrub communities. Journal of Ecology 103:489-501. DOI: 10.1111/1365-2745.12361	ST
24.	Cassotta S 2015. Climate Change, Foreign Investments and Indigenous People Rights in the Arctic: What is the Optimal Level Regulatory Environmental Assessment Scheme in the Case of Oil and Gas in Greenland? Oil and Gas Environmental Law Review, OGEL, 2015, in press.	BSS

25.	Cassotta S, Hossain K, Ren J, Goodsite ME 2015. Climate Change and Human Security in a Multi-level and Multidisciplinary Dimension: The Case of the Arctic Environmental Ocean, Climate Change Management, Springer, 2015, in press.	BSS
26.	Cassotta S, Hossain K, Ren J, Goodsite ME 2015. Climate Change and China as a Global Emerging Regulatory Sea Power in the Arctic Ocean: Is China a Threat for Arctic Security? Beijing Law Review, (BLR), 2015.	BSS
27.	Cassotta S, Mauro M 2015. Balancing de jure and de facto Arctic Environmental Law applied to Oil and Gas Industry: Linking Indigenous Rights, Social Impact Assessment and Investments in Greenland. 2015, Volume 6, Year Book of Polar Law, Brill Nijhoff.	BSS
28.	Castorani MCN, Glud RN, Hasler-Sheetal H & Holmer M 2015. Light indirectly mediates bivalve habitat modification and impacts on seagrass. Journal of Experimental Marine Biology and Ecology. Volume 472, Pages 41–53. doi:10.1016/j.jembe.2015.07.001	ST
29.	Christensen AV, Egholm DL, Piotrowski JA, Tulazcyk S, Larsen NK & Brædstrup C 2015. A new methodology to simulate subglacial deformation of water-saturated granular material. The Cryosphere 9, 2183–2200.	ST
30.	Davidson TA, Audet J, Svenning JC, Lauridsen TL, Søndergaard M, Landkildehus F, Larsen SE, Jeppesen E 2015. Eutrophication effects on greenhouse gas fluxes from shallow-lake mesocosms override those of climate warming. Glob Chang Biol. 2015 Dec;21(12):4449-63. doi: 10.1111/gcb.13062.	ST
31.	Desforges JPW, Sonne C, Levin M, Siebert U, De Guise S &	ST

	Dietz 2015. Immunotoxic effects of environmental pollutants in marine mammals. Environment International 86 (2016) 126–139. http://dx.doi.org/10.1016/j.envint.2015.10.007	
32.	Dietz R, Gustavson K, Sonne C, Desforges JP, Rigét FF, Pavlova V, McKinney MA & Letcher RJ 2015. Physiologically-based pharmacokinetic modelling of immune, reproductive and carcinogenic effects from contaminant exposure in polar bears (*Ursus maritimus*) across the Arctic. Environmental Research 140: 45–55. doi: 10.1016/j.envres.2015.03.011	ST
33.	Dmitrenko IA, Kirillov SA, Rysgaard S, Barber D, Babb D, Pedersen LT, Koldunov NV, Boone W, Crabeck O & Mortensen J 2015. Polynya impacts on water properties in a Northeast Greenland fjord. Estuarine Coastal and Shelf Science, 153, 10-17.	ST
34.	Donis D, Holtappels M, Noss C, Cathalot C, Hancke K, Polsenaere P, Wenzhöfer F, Lorke A, Meysman FJR, Glud RN & McGinnis DF 2015. An Assessment of the Precision and Confidence of Aquatic Eddy Correlation Measurements. J. Atmos. Oceanic Technol. 32, 642–655. doi: http://dx.doi.org/10.1175/JTECH-D-14-00089.1	ST
35.	Eckhardt S, Quennehen B, Olivié DJL, Berntsen TK, Cherian R, Christensen JH, Collins W, Crepinsek S, Daskalakis N, Flanner M, Herber A, Heyes C, Hodnebrog Ø, Huang L, Kanakidou M, Klimont Z, Langner J, Law KS, Lund MT, Mahmood R, Massling A, Myriokefalitakis S, Nielsen IE, Nøjgaard JK, Quaas J, Quinn PK, Raut JC, Rumbold ST, Schulz M, Sharma S, Skeie RB, Skov H, Uttal T, von Salzen K & Stohl A 2015. Current model capabilities for	ST

	simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. Atmos Chem Phys 15:9413–9433.	
36.	Ehrich D, Ims RA, Yoccoz NG, Lecomte N, Killengreen ST, Fuglei E, Rodnikova AY, Ebbinge BS, Menyushina IE, Nolet BA, Pokrovsky IG, Popov IY, Schmidt NM, Sokolov AA, Sokolova NA & Sokolov VA 2015. What Can Stable Isotope Analysis of Top Predator Tissues Contribute to Monitoring of Tundra Ecosystems? Ecosystems 18:404-416. DOI: 10.1007/s10021-014-9834-9	ST
37.	Else BGT, Rysgaard S, Attard K, Campbell K, Crabeck O, Galley RJ, Geilfus N-X, Lemes M, Lueck R, Papakyriakou T & Wang F 2015. Under-ice eddy covariance flux measurements of heat, salt, momentum, and dissolved oxygen in an artificial sea ice pool. Cold Regions Science and Technology, 119:158-169.	ST
38.	Eskildsen A, Carvalheiro LG, Kissling WD, Biesmeijer JC, Schweiger O & Høye TT 2015. Ecological specialization matters: long-term trends in butterfly species richness and assemblage composition depend on multiple functional traits. Diversity and Distributions 21:792–802. DOI: 10.1111/ddi.12340	ST
39.	Falk JK, Schmidt NM, Christensen TR & Ström L 2015. Large herbivore grazing affects the vegetation structure and greenhouse gas balance in a high arctic mire. Environ. Res. Lett. 10:045001. doi:10.1088/1748-9326/10/4/045001	ST
40.	Fisker KV, Bouvrais H, Overgaard J, Schottner K, Ipsen JH & Holmstrup M 2015. Membrane properties of *Enchytraeus albidus* originating from contrasting environments: a	ST

	comparative analysis. Journal of Comparative Physiology B – Biochemical systemic and environmental physiology 185(4):389-400. DOI: 10.1007/s00360-015-0895-7	
41.	Flury S, Glud RN, Premke K, McGinnis DF 2015. Effect of Sediment Gas Voids and Ebullition on Benthic Solute Exchange. Environ Sci Technol 49(17):10413–10420. DOI: 10.1021/acs.est.5b01967	ST
42.	Gabrielsen KM, Krokstad JS, Obregon MJ, Villanger GD, Sonne C, Dietz R & Jenssen BM 2015. Thyroid hormones and deiodinase activities in plasma and tissues from East Greenland polar bears (*Ursus maritimus*) during winter season. POLAR BIOLOGY 38(8): 1285-1296 . DOI: 10.1007/s00300-015-1694-z	ST
43.	Gabrielsen KM, Krokstad JS, Villanger GD, Blair DAD, Obregon M-J, Sonne C, Dietz R, Letcher RJ, Jenssen BM 2015. Thyroid hormones and deiodinase activity in plasma and tissues in relation to high levels of organohalogen contaminants in East Greenland polar bears (*Ursus maritimus*). Environmental Research 136,413-423.	ST
44.	Galley RJ, Else BGT, Geilfus N-X, Hare AA, Babb D, Papakyriakou TN, Barber DG, Rysgaard S. 2015. Micrometeorological and thermal control of frost flower growth on young sea ice. Arctic 68(1): 79-92.	ST
45.	Galley RJ, Else BGT, Geilfus N-X, Hare A, Issleifson D, Barber DG & Rysgaard S 2015. Imaged brine inclusions in young sea ice—Shape, distribution and formation timing. Cold Regions Science and Technology 111, 39-48.	ST
46.	Geilfus N-X, Galley RJ, Crabeck O, Papakyriakou T, Landy J, Tison J-L & Rysgaard S 2015. Inorganic carbon dynamics of melt pond-covered first year sea ice in the Canadian	ST

	Arctic. Biogeosciences 12,2047-2061.	
47.	Glombitza C, Jaussi M, Røy H, Seidenkrantz M-S, Lomstein BA & Jørgensen BB 2015. Formate, acetate, and propionate as substrates for sulfate reduction in sub-arctic sediments of Southwest Greenland. Frontiers in Microbiology - Extreme Microbiology 6. doi: 10.3389/fmicb.2015.00846	ST
48.	Glud RN, Grossart H-P, Larsen M, Tang KW, Arendt KE, Rysgaard S, Thamdrup B & Nielsen TG 2015. Copepod carcasses as microbial hot spots for pelagic denitrification. Limnology and Oceanography 60, 2026-2036. DOI: 10.1002/lno.10149	ST
49.	Goodsite EM, Bertelsen RG, Cassotta, S, Van der Watt S, Jóhansson T 2015. The Role of Science Diplomacy: A Historical Development and International Legal Framework of Arctic Research Stations under Conditions of Climate Change Post-cold War Geopolitics and Globalization/Power Transition. Journal of Environmental Studies and Sciences, September 2015.	BSS
50.	Govin A, Capron E, Tzedakis PC, Verheyden S, Ghaleb B, Hillaire-Marcel C, St-Onge G, Stoner JS, Bassinot F, Bazin L, Blunier T, Combourieu-Nebout N, El Ouahabi A, Genty D, Gersonde R, Jimenez-Amat P, Landais A, Martrat B, Masson-Delmotte V, Parrenin F, Seidenkrantz MS, Veres D, Waelbroeck C & Zahn R 2015. Sequence of events from the onset to the demise of the Last Interglacial: Evaluating strengths and limitations of chronologies used in climatic archives. Quaternary Science Reviews 129:1-36. doi:10.1016/j.quascirev.2015.09.018.	ST
51.	Goyenola G, Meerhoff M, Teixeira-de Mello F, González-Bergonzoni I, Graeber D, Fosalba C, Vidal N, Mazzeo N,	ST

	Ovesen NB, Jeppesen E & Kronvang B 2015. Monitoring strategies of stream phosphorus under contrasting climate-driven flow regimes. Hydrol. Earth Syst. Sci., 19, 4099-4111, doi:10.5194/hess-19-4099-2015.	
52.	Hammervold SH, Glud RN, Evjemo JO, Hagemann A & Hansen BW 2015. A new large egg type from the marine live feed calanoid copepod *Acartia tonsa* (Dana)—Perspectives for selective breeding of designer feed for hatcheries. Aquaculture 436:114–120. doi:10.1016/j.aquaculture.2014.11.003	ST
53.	Hancke K, Dalsgaard T, Sejr MK, Markager S, Glud RN 2015. Phytoplankton Productivity in an Arctic Fjord (West Greenland): Estimating Electron Requirements for Carbon Fixation and Oxygen Production. PLoS One 10**:** e0133275, dx.doi.org/10.1371/journal.pone.0133275	ST
54.	Hansen J, Ek M, Roslin T, Moreau J, Teixeira M, Gilg O & Schmidt NM 2015. First Observation of a Four-egg Clutch of Long-tailed Jaeger (*Stercorarius longicaudus*). The Wilson Journal of Ornithology 127(1):149-153. doi: http://dx.doi.org/10.1676/14-072.1	ST
55.	Hansen K, Pryor SC, Boegh E, Hornsby KE, Jensen B & Sørensen LL 2015. Background concentrations and fluxes of atmospheric ammonia over a deciduous forest. Agricultural and Forest Meteorology 214-215 (2015) 380–392. http://dx.doi.org/10.1016/j.agrformet.2015.09.004	ST
56.	Hansen KM, Christensen JH, Geels C, Silver JD, Brandt J. 2015. Modelling the impact of climate change on the atmospheric transport and the fate of persistent organic pollutants in the Arctic. Atmospheric Chemistry and Physics, 15, 6549-6559, doi:10.5194/acp-15-6549-2015.	ST

57.	Hansen KM, Christensen JH & Brandt J 2015. The Influence of Climate Change on Atmospheric Deposition of Mercury in the Arctic – A Model Sensitivity Study, International Journal of Environmental Research and Public Health 12, 11254-11268, doi:10.3390/ijerph120911254	ST
58.	Hansen MJ, Braaten MS, Bojesen AM, Christensen H, Sonne C, Dietz R & Bertelsen MF 2015. *Ursidibacter maritimus* gen. nov., sp. nov. and *Ursidibacter arcticus* sp. nov., two new members of the family *Pasteurellaceae* isolated from the oral cavity of bears. International Journal of Systematic and Evolutionary Microbiology 65:3683–3689. DOI 10.1099/ijsem.0.000	ST
59.	Harðardóttir S, Pančić M, Tammilehto A, Krock B, Friis Møller E, Nielsen TG & Lundholm N 2015. Dangerous Relations in the Arctic Marine Food Web: Interactions between Toxin Producing *Pseudo-nitzschia* Diatoms and *Calanus* Copepodites. Mar. Drugs 13, 3809-3835; doi:10.3390/md13063809	ST
60.	Holtappels M, Noss C, Hancke K, Cathalot C, McGinnis DF, Lorke A & Glud RN 2015. Aquatic Eddy Correlation: Quantifying the Artificial Flux Caused by Stirring-Sensitive O2Sensors. PLOS One, January 30, 2015, DOI: 10.1371/journal.pone.0116564	ST
61.	Jenssen BM, Villanger GD, Gabrielsen KM, Bytingsvik J, Bechstoft T, Ciesielski TM, Sonne C, Dietz R 2015. Anthropogenic flank attack on polar bears: interacting consequences of climate warming and pollutant exposure. Frontiers in Ecology and the Environment, vol. 3, pp. 1-7.	ST
62.	Jiang B, Zhangb Y, Lianga S, Wohlfahrt G, Araind A,	ST

	Cescattie A, Georgiadis T, Jia K, Kielyg G, Lund M, Montagnani L, Magliulok V, Ortiz PS, Oechel W, Vaccarin FP, Yaoa Y & Zhanga X 2015. Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. Agricultural and Forest Meteorology 211–212 (2015) 23–36 http://dx.doi.org/10.1016/j.agrformet.2015.05.003	
63.	Jiang H, Muscheler R, Björck S, Seidenkrantz M-S, Olsen J, Sha L, Sjolte J, Eiríksson J, Ran L, Knudsen KL, Knudsen MF 2015. Solar forcing of Holocene summer sea-surface temperatures in the northern North Atlantic. Geology 43:203-206.	ST
64.	Jovanovic Z, Pedersen MØ, Larsen M, Kristensen E & Glud RN 2015. Rhizosphere O2 dynamics in young *Zostera marina* and *Ruppia maritima*. Marine Ecology Progress Series 518:95-105. doi:10.3354/meps11041	ST
65.	Juul-Pedersen T, Arendt K, Mortensen J, Blicher M, Søgaard D, Rysgaard S 2015. Seasonal and interannual phytoplankton production in a sub-Arctic tidewater outlet glacier fjord, SW Greenland. Marine Ecology Progress Series 524,27-38.	ST
66.	Karmin M, Saag L, Vicente M, Wilson Sayres MA, Järve M, Gerst Talas U, Rootsi S, Ilumäe AM, Mägi R, Mitt M, Pagani L, Puurand T, Faltyskova Z, Clemente F, Cardona A, Metspalu E, Sahakyan H, Yunusbayev B, Hudjashov G, DeGiorgio M, Loogväli EL, Eichstaedt C, Eelmets M, Chaubey G, Tambets K, Litvinov S, Mormina M, Xue Y, Ayub Q, Zoraqi G, Sand Korneliussen T, Akhatova F, Lachance J, Tishkoff S, Momynaliev K, Ricaut FX, Kusuma P, Raxafindrazaka H, Pierron D, Cox MP, Nurun Nahar Sultana	Arts

	G, Willerslev R, Muller C, Westaway M, Lambert D, Skaro V, Kovačevic´ L, Turdikulova S, Dalimova D, Khusainova R, Trofimova N, Akhmetova V, Khidiyatova I, Lichman DV, Isakova J, Pocheshkhova E, Sabitov Z, Barashkov NA, Nymadawa P, Mihailov E, Wee Tien Seng J, Evseeva I, Bamberg Migliano A, Abdullah S, Andriadze G, Primorac D, Atramentova L, Utevska O, Yepiskoposyan L, Marjanovic´ D, Kushniarevich A, Behar DM, Gilissen C, Vissers L, Veltman JA, BAlanovska E, Derenko M, Malyarchuk B, Metspalu A, Fedorova S, Eriksson A, Manica A, Mendez FL, Karafet TM, Veeramah KR, Bradman N, Hammer MF, Osipova LP, Balanovsky O, Khusnutdinova EK, Johnsen K, Remm M, Thomas MG, Tyler-Smith C, Underhill PA, Willerslev E, Nielsen R, Metspalu M, Villems R & Kivisild T 2015. A recent bottleneck of Y chromosome diversity coincides with a global change in culture. Genome Res. 25: 459-466. doi: 10.1101/gr.186684.114.	
67.	Kirillov S, Dmitrenko I, Babb D, Rysgaard S & Barber D 2015. The effect of ocean heat flux on seasonal ice growth in Young Sound (NE Greenland). Journal of Geophysical Research: Oceans 120(7):4803-4824.	ST
68.	Kjeldsen KK, Korsgaard NJ, Bjørk AA, Khan SA, Box JE, Funder S, Larsen NK, Bamber JK, Colgan W, van den Broeke M, Siggaard-Andersen ML, Nuth C, Schomacker A, Andresen CS, Willerslev E & Kjær KH 2015. Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900. Nature 528:396–400	ST
69.	Kjellerup S, Dünweber M, Friis Møller E, Schiedek D, Oskarsson GJ, Rigét F, Johansen KL & Mosbech A 2015. Vertical and horizontal distribution of zooplankton and polar cod in southern Baffin Bay (66–71°N) in September 2009.	ST

	Polar Biol 38:699–718. DOI 10.1007/s00300-014-1633-4	
70.	Knudsen AKS, Long M, Sloth Pedersen H, Bonefeld-Jørgensen EC. Lifestyle, reproductive factors and food intake in Greenlandic pregnant women: The ACCEPT - sub study. Int J Circumpolar Health 2015, 74: 29469	Health
71.	Knudsen MF, Egholm DL, Jakobsen BH, Larsen NK, Jansen J, Andersen JL & Linge H 2015. A multi-nuclide approach to constrain landscape evolution and past erosion rates in previously glaciated terrains. Quaternary Geochronology 30, 100-113.	ST
72.	Korsgaard NJ, Schomacker A, Benediktsson ÍÖ, Larsen NK, Ingólfsson Ó & Kjær KH 2015. Spatial distribution of sediment transport during glacier surge: Brúarjökull, Iceland. Geomorphology 250, 258-270.	ST
73.	Krause-Jensen D, Duarte CM, Hendriks IE, Meire L, Blicher ME, Marbà N, Sejr MK 2015. Macroalgae contribute to nested mosaics of pH variability in a sub-Arctic fjord. Biogeosciences 12, 4895–4911. doi:10.5194/bg-12-4895-2015	ST
74.	Krause-Jensen D, Duarte CM, Hendriks IE, Meire L, Blicher ME, Marbà N, Sejr MK 2015. Nested scales of pH variability in sub-Arctic Kobbefjord, SW Greenland", DIGI- TAL.CSIC.	ST
75.	Krawczyk DW, Arendt KE, Juul-Pedersen T, Sejr MK, Blicher ME & Jakobsen HH 2015. Spatial and temporal distribution of planktonic protists in the East Greenland fjord and offshore waters. Marine Ecology Progress Series 538: 99–116, doi: 10.3354/meps11439	ST
76.	Krawczyk DW, Witkowski A, Juul-Pedersen T, Arendt K, Mortensen J, Rysgaard S 2015. Microplankton succession in a SW Greenland tidewater glacial fjord	ST

	influenced by coastal inflows and runoff from the Greenland Ice Sheet. Polar Biology 38(9):1515-1533.	
77.	Laidre KL, Born EW, Heagerty P, Wiig Ø, Stern H, Dietz R, Aars J, Andersen M 2015. Shifts in female polar bear (*Ursus maritimus*) habitat use in East Greenland. Polar Biology, DOI 10.1007/s00300-015-1648-5.	ST
78.	Langen PL, Mottram RH, Christensen JH, Boberg F, Rodehacke CB, Stendel M, van As D, Ahlstrøm AP, Mortensen J, Rysgaard S, Petersen D, Svendsen KH, Aðalgeirsdóttir G, Cappelen J 2015. Quantifying energy and mass fluxes controlling Godthåbsfjord freshwater input in a 5-km simulation (1991-2012). Journal of Climate, 28, 3694-3713.	ST
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2. International conferences and seminars

	International conferences and seminars, etc. organised by the Interdisciplinary Research Centre *(Title, date, place)*	**Number of participants** [1]	**Main areas of AU involved**
1.	Arctic Seminar Series, 6 times in 2015 (18 February, 4 March, 26 March, 15 April, 13 May, 28 October), AIAS	5-25	all
2.	Knud Rasmussen lecture with prof Peter Jordan, Arctic Centre, University of Groningen, 3 June, Moesgaard Museum	25	all
3.	Forging of cultures in the Circumpolar North – a comparative perspective, 24-25 September, Aarhus	58 (see appendix)	Arts
4.	MatchPoints Seminar, Security and Governance in the Globalised Arctic: Nordic and International Perspectives, 11-12 November, Aarhus (steering committee, panel	249	all

[1] Please submit list of participants

	chairs, speakers)		
5.	Arctic Science Partnership Annual Meeting, 5-6 Dec, Vancouver, Canada	22 (see appendix)	ST
6.	Member of the French scientific delegation, Arctic Circle, Iceland, October 2015. Meeting with President François Hollande and with French Minister for the Environment Ségolène Royale		Arts
7.	Panel chair, moderator, "Blue growth in the Arctic: bioeconomy, tourism and environmental security", Arctic Futures, 17 November, Brussels, Belgium		Arts, BSS
8.	Co-chair, Security and resource development policies: multi-level governance in the Arctic region, 2nd International Conference on Public Policies (ICPP), 1-4 July, Milan, Italy		Arts, BSS
9.	Convenor, Decadal to millennial scale climate variability of the late Quaternary European Geoscience, Union, 13-17 April, Vienna		ST
10.	Co-Convenor, Sea ice in the Quaternary INQUA congress, 26 July - 2 August, Nagoya, Japan		ST
11.	Organiser of symposium "Diabetes research in the Arctic" held by ESDIPAN (Establishment of a network for the Study of Diabetes among Indigenous Populations in the Arctic (ESDIPAN) Network), 8 June, Oulu, Finland	30	Health

Invited presentations to internationally established conferences

	Name of invited speaker affiliated with the Interdisciplinary Research Centre	**Conference** *(Title, date, place)*	**Title of presentation**
1.	Anders Frederiksen and Maja Due	MatchPoints seminar, 11-12	Large scale projects in the Arctic: The

	Kadenic	November, Aarhus	socioeconomic effects of mining in the Scandinavian Arctic
2.	Andreas Massling	European Aerosol Conference, 6-11 September, Milan, Italy,	A new facility for cross-disciplinary research in the high Arctic
3.	Cécile Pelaudeix	Arctic Frontiers, 23 January 2015, Tromsø, Norway	China's energy interests in the Arctic: how to understand China's foreign policy in a multipolar world
4.	Cécile Pelaudeix	Presentation at the Seminar on "Arctic: Current Legal and Policy Issues", 24 April 2015, Kobe University, Graduate School of International Cooperation Studies (GSICS), Kobe, Japan	Offshore regulation and the fragmentation of law: international law, domestic law and the relative empowerment of private actors
5.	Cécile Pelaudeix	Arctic Science Summit Week (ASSW), 28 April 2015. Toyama International Conference Center, Toyama, Japan	China's role in the governance of the Arctic: Mapping Chinese's foreign policy challenge
6.	Cécile Pelaudeix	27 May 2015, Shanghai, China	China's role in the governance of the Arctic: towards an alternative diplomacy?
7.	Cécile Pelaudeix	International Conference on Public Policies, 3-5 July, ICPP Milan, Italy	Offshore hydrocarbon activities in the Arctic ocean and multilevel governance: analysis of the relevance of an analytical concept
8.	Cécile Pelaudeix	Arctic Circle, 18 October 2015, Reykjavik, Iceland	China's role in the governance of the Arctic: towards an alternative diplomacy?
9.	Cécile Pelaudeix	Arctic Futures, 17 November, Brussels, Belgium	EU contribution to environmental standards on offshore hydrocarbon extraction, Legal and political challenges

10.	Cécile Pelaudeix	COP21, The Arctic and Nordic Climate Science, Technology and Diplomacy in a Global Context, 5 December, Paris, France	Governance of fossil fuels in the Arctic needs inclusive management and trust-based contracts
11.	Christian Sonne	MatchPoints seminar, 11-12 November, Aarhus	Effects of pollutants on marine mammals in the Arctic; are Arctic marine mammals fragile or resilient from a wildlife veterinarian point of view?
12.	Dorte Krause-Jensen	ASLO meeting, 22-27 February, Granada, Spain	Macrophyte control of coastal pH de-pends on photoperiod
13.	Dorte Krause-Jensen	ASLO meeting, 22-27 February, Granada, Spain	Drivers of mollusk performance: food supply vs carbonate saturation state
14.	Dorte Krause-Jensen	Seminar at King Abdul University of Science and Technology, April 2015, Saudi Arabia	New coastal ecosystems in a warmer Arctic
15.	Ellen Margrethe Basse	MatchPoints seminar, 11-12 November, Aarhus	How does the EU contribute to the development of environmental standards on offshore hydrocarbon extraction?
16.	Erik Jeppesen	MatchPoints seminar, 11-12 November, Aarhus	Arctic Limnic ecosystems, fragility and robustness
17.	Eva C Bonefeld-Jørgensen	16th International Congress on Circumpolar Health, 8-12 June, Oulu, Finland	Lifestyle factors and dietary habits among pregnant Greenlandic women
18.	Eva C Bonefeld-Jørgensen	51st Congress of the European Societies of Toxicology (EUROTOX) 13-16 September, Porto, Portugal	Epigenetic mechanisms as tool for fetal programming and possible environmental influences
19.	Igor Eulaers	Conference of the EURAPMON Research Networking Programme: Research and monitoring for and with raptors in Europe, 9-11 March, Aledo, Spain	Necessity, feasibility and concepts for pan-European contaminant monitoring for and with raptors

20.	Jeanette Lykkegård Nielsen	Forging of cultures in the Circumpolar North – a comparative perspective, 24-25 September, Aarhus	The Circle of Death: A Chukchi perspective on Alcohol and Alcohol-related Violent Death's
21.	Jean-Pierre Desforges	SETAC-Europe annual conference, 3-7 May, Barcelona, Spain	Immune Effects of PCBs and PFCs in East Greenland Ringed Seals
22.	Kasper Hancke	18th Danish Marine science meeting, 28-30 January, GEUS, Copenhagen	Phytoplankton productivity quantified from chlorophyll fluorescence
23.	Mandana Ghisari	16th International Congress on Circumpolar Health, 8-12 June, Oulu, Finland	Polymorphisms in Phase I and Phase II genes and breast cancer risk and relations to persistent organic pollutant exposure: a case-control study in Greenlandic Inuit women
24.	Manhai Long	16th International Congress on Circumpolar Health, 8-12 June, Oulu, Finland	Food intake and serum persistent organic pollutants in the Greenlandic pregnant women
25.	Marit-Solveig Seidenkrantz	INQUA congress, 26 July - 2 August, Nagoya, Japan	HOLOCENE SEA-ICE COVER IN THE ARCTIC AND SUBARCTIC – proxy data compilation and modelling
26.	Marit-Solveig Seidenkrantz	Past Gateways, 18-22 May, Potsdam, Germany	Variability of late Holocene ocean and atmosphere circulation in the Labrador Sea and North Atlantic region - or why that which does not fit, fits extra well!
27.	Mikael Sejr	MatchPoints seminar, 11-12 November, Aarhus	Arctic Marine ecosystem, fragility and robustness
28.	Mikael Sejr	Gordon Research Conferences, Polar Marine Science, 15-20 March, Lucca, Italy	Glacial meltwater as an important driver for carbon cycling and air-sea exchange of VO2 in a Greenland fjord
29.	Niels Martin Schmidt	MatchPoints seminar, 11-12 November, Aarhus	Arctic Terrestrial Ecosystems, fragility and robustness to changes in snow cover
30.	Pelle Tejsner	MatchPoints seminar, 11-12 November, Aarhus	A whaler's 'Catch-22'
31.	Pelle Tejsner	Polarforskningskonference, 3-4	Olieboringer og lokale holdninger i

		December, Aalborg	Upernavik
32.	Pernille Falberg Rønn	Nordic World Health Organisation Simulation (NorWHO), 14 August, Copenhagen	Ethnicity and obesity
33.	Rane Willerslev	American Anthropological Association, Annual meeting, 17-22 November, Denver, USA	The seriousness of anthropology: Religion, ontology, critique
34.	Rane Willerslev	American Anthropological Association, Annual meeting, 17-22 November, Denver, USA	The familiar and the strange of personhood: "The new animism" and the re"turn to things" panel 2 of 2
35.	Rasmus Dyrmose Nørregaard	SETAC-Europe annual conference, 3-7 May, Barcelona, Spain	The use of Shorthorn sculpin as a biomonitoring organism in Greenland
36.	Rikke R Hansen	Entomological Society of Canada, Joint Annual Meeting, 8-11 November, Montréal, Québec, Canada	Spatial and temporal variation in Arctic arthropod distribution.-The devil is in the detail
37.	Rikke R Hansen	Entomological Society of Canada, Joint Annual Meeting, 8-11 November, Montréal, Québec, Canada	Arctic butterflies become smaller with rising temperatures
38.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Seasonal changes in reachscale stream metabolism over different geologies
39.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Oxygen exchange and carbon mineralization at the seabed: Assessments by the eddy correlation approach
40.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Benthic primary production in temperate and arctic coastal marine ecosystems quantified using eddy correlation technique.
41.	Ronnie N Glud	American Society for Limnology	Aquatic eddy correlation: Quantifying

		and Oceanography, Annual meeting, 22-27 September, Granada, Spain	the artificial flux caused by stirring sensitive O_2 sensors
42.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Contribution of diatoms to anaerobic nitrate metabolism in sinking aggregates
43.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Sinking diatom aggregates: overlooked anaerobic hotspots in the marine nitrogen cycle
44.	Ronnie N Glud	American Society for Limnology and Oceanography, Annual meeting, 22-27 September, Granada, Spain	Reliable quantification of dissolved oxygen in "anoxic systems" with optodes
45.	Ronnie N Glud	Gordon Research Conferences, Polar Marine Science, 15-20 March, Lucca, Italy	Climate Induced Changes in Sea-Ice Dynamics: Implication for the Marine Carbon Cycle
46.	Sandra Cassotta Pertoldi-Bianchi	Integrating Climate Change Adaptation – The second biennial European Climate Change Adaptation Conference (ECCA 2015), 12-14 May, Copenhagen	Climate Change and Human Security in a Multi-level and Interdisciplinary Dimension: The Case of the Arctic Environmental Ocean
47.	Sandra Cassotta Pertoldi-Bianchi	Integrating Climate Change Adaptation – The second biennial European Climate Change Adaptation Conference (ECCA 2015), 12-14 May, Copenhagen	Indigenous People and Changing Arctic
48.	Sandra Cassotta Pertoldi-Bianchi	Reframing the Arctic: Cooperation, Not Conflict - University of Vermont, Institute for Environmental Diplomacy and Security, 6-7 July, Burlington, Vermont, USA	The Scramble for Arctic Resources: Reframing Energy and Resource Extraction in the Arctic
49.	Sandra Cassotta Pertoldi-Bianchi	World Symposium on Climate	Climate Change and Human Security in

		Change Adaptation (WSCCA 2015), 2-4 September, Manchester, UK	a Multi-level and Interdisciplinary Dimension: The Case of the Arctic Environmental Ocean
50.	Sandra Cassotta Pertoldi-Bianchi	Malta Legal Forum on Adaptation to Climate Change, 14-16 September, University of Malta, Malta	Adaptation in the Arctic
51.	Signe Normand and Toke T Høye	Forging of cultures in the Circumpolar North – a comparative perspective, 24-25 September, Aarhus	Disequilibrium dynamics in Arctic ecosystems
52.	Søren Rysgaard	ASLO meeting, 22-27 February, Granada, Spain	Benthic primary production in temperate and arctic coastal marine ecosystems quantified using eddy correlation technique.
53.	Søren Rysgaard	18th Danish Marine science meeting. 28-30 January, GEUS, Copenhagen	Optimizing current fields, sea level and chlorophyll from regional modelling and remote sensing
54.	Søren Rysgaard	INQUA congress, 26 July - 2 August, Nagoya, Japan	Phytoplankton genetic diversity in a changing climate - 80 years of microevolution reconstructed from a sub-arctic fjord record (Nuuk fjord, SW Greenland)
55.	Søren Rysgaard	The 7th International Symposium on Gas Transfer at Water Surface, 18-21 May, Seattle, WA, USA	Surface exchange of CO2 in estuaries at high latitudes
56.	Søren Rysgaard	Riddell faculty seminar series, 29 January, University of Manitoba, Canada	The Greenland Ice Sheet: Is it melting? What are the consequences?
57.	Søren Rysgaard	Gordon Research Conferences, Polar Marine Science, 15-20	The role of the sea-ice carbon pump for the marine carbon budget

		March, Lucca, Italy	
58.	Søren Rysgaard	Annual meeting of the Canada Excellence Research Chairs, 13-14 April, University of Waterloo, Canada	Sea ice – news since last year
59.	Søren Rysgaard	Ilulissat climate days. Hotel Arctic 2-5 June, Changes of the Greenland cryosphere and Svali final conference, Greenland	Circulation and heat sources for glacial melt in a west Greenland fjord
60.	Søren Rysgaard	Ilulissat climate days. Hotel Arctic 2-5 June, Changes of the Greenland cryosphere and Svali final conference, Greenland	Glacial meltwater as driver for high primary production in Greenlandic fjords
61.	Søren Rysgaard	Ilulissat climate days. Hotel Arctic 2-5 June, Changes of the Greenland cryosphere and Svali final conference, Greenland	Polynya impacts on sea ice and water properties in a Northeast Greenland fjord
62.	Søren Rysgaard	SOLAS open science conference, 7-11 September, Kiel, Germany	Surface exchange of CO_2 in Greenlandic estuaries
63.	Søren Rysgaard	Workshop on Ecology of Northern Fjords, 25-27 November, Tromsø, Norway	Glacier-Fjord-Ocean interactions - effects of glacial melt on primary production and food web structure in Greenland fjords
64.	Søren Rysgaard	MatchPoints seminar, 11-12 Nov, Aarhus	Arctic dilemmas: Development in a fragile environment
65.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	First oceanographic observations on the Wandel Sea shelf in Northeast Greenland: Tracing the Arctic ocean outflow through the western Fram Strait and the glacier-ocean interaction during winter
66.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	Circulation modes and changing water seasonal circulation modes, water masses and fjord-shelf exchange in an

			ice covered NE Greenland Fjord
67.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	The impact of the tropical/northern hemisphere teleconnection pattern on an abnormally cold winter over north America
68.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	Glacial runoff as drivers for high primary production in Greenland fjord
69.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	Under ice fluxes of dissolved oxygen, heat, and salt measured during the ice algae bloom period
70.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	Physical processes contributing to an ice free Beufort Sea during September 2012
71.	Søren Rysgaard	ArcticNet 11th Annual Scientific Meeting, 7-11 December, Vancouver, Canada	Imaging air volume fraction in sea ice using non-destructive x-ray tomography
72.	Søren Rysgaard	AGU fall meeting, 14-18 December, San Francisco, California, USA	A synthesis of the ongoing work in a west Greenland tidewater outlet glacier fjord, Godthåbsfjord
73.	Stine Vestbo and Claus Hindberg	Forging of cultures in the Circumpolar North – a comparative perspective, 24-25 September, Aarhus	Eiders as long distance connectors in Arctic networks
74.	Toke T Høye	MatchPoints seminar, 11-12 November, Aarhus	Species responses to Arctic climate change: lessons from spiders and insects
75.	Toke T Høye	Danish OIKOS annual meeting 2015, 6-7 March, Aarhus	Species responses to arctic climate change - the devil is in the detail
76.	Vladimir Pacheco Cueva	MatchPoints seminar, 11-12 November, Aarhus	The right hand does not know what the left hand does. The missing links in the research literatures on energy security and socio-economic impacts of non-renewable resource extraction in

			Greenland
77.	Vladimir Pacheco Cueva	Social Movements and Conflicts in the Global Era, Prague, 26-27 September	Water not Gold! Struggles over resources in Central America

3. Talent Development

PhD students affiliated with the Interdisciplinary Research Centre

	Name PhD student	**Name of AU department where the PhD student is enrolled**	**Enrolled at other university/ institute** *(please state the name)*	**Period of affiliation**
1.	Aili Lage Labansen	Bioscience		2015-2018
2.	Anne Eskildsen*	Bioscience		1 May 2012 – 30 April 2015
3.	Anne Maria K Hansen*	Chemistry		1 Oct 2012 – 30 Sept 2015
4.	Anne-Sofi Birch Lundgaard		University of Southern Denmark	2013-2016
5.	Astrid Strunk	Geoscience		2015-2019
6.	Caroline Ernberg Simonsen	Bioscience		2011-2016
7.	Christian Bjerregaard Olesen	Public Health		
8.	Christina Sheldon*	Geoscience		1 March 2012 – 28 Feb 2015
9.	Efrén López Blanco	Bioscience		15 Oct 2014 – 14 Oct 2017
10.	Eva Thorborg Mørk*	Environmental Science		1 Nov 2011 – 10 June 2015
11.	Gitte Høj Jensen*	Bioscience		1 May 2011 – 28 Nov 2014
12.	Heidi L Sørensen		University of Southern Denmark	2012-2016
13.	Herbert Njuabe	Bioscience		2011-2015

	Mbufong*			
14.	Ingeborg Elbæk Nielsen	Environmental Science		1 Feb 2014 – 31 Jan 2017
15.	Jakob Sievers*	Environmental Science		2011-2015
16.	Jakob Thyrring	Bioscience		1 Feb 2013 - 1 Jan 2017
17.	Jeanette Lykkegård Nielsen	Culture and Society		1 Feb 2012 – 7 April 2016
18.	Jean-Pierre Desforges	Bioscience		1 Dec 2014-1 Dec 2017
19.	Jesper Bruun Mosbacher	Bioscience		1 May 2014 – 31 April 2017
20.	Karl Attard		University of Southern Denmark	2011-2015
21.	Katrine Raundrup	Bioscience		
22.	Lærke Stewart	Bioscience		1 Feb 2014 – 30 July 2016
23.	Louise Holm Schæbel	Public Health		
24.	Maja Due Kadenic	BSS		2013-2016
25.	Maria Wielsøe	Public Health		
26.	Nynne Hjort Nielsen	Bioscience		2015-2017
27.	Pernille Falberg Rønn	Public Health		1 Oct 2014 - 30 Sept 2017
28.	Rasmus Dyrmose Nørregaard	Bioscience		1 Jan 2015 – 31 Dec 2017
29.	Rikke Reisner Hansen	Bioscience		1 May 2013 – 29 Aug 2016
30.	Robert Lange	Environmental Science		1 Oct 2015 – 30 Sept 2018
31.	Rune Skjold Tjørnløv	Bioscience		1 May 2014 – 3 July 2017
32.	Stine Højlund Pedersen	Bioscience		1 Nov 2012-31 Oct 2016
33.	Stine Vestbo	Bioscience		1 Feb 2015 – 31 Jan 2019

34.	Viola Pavlova*	Bioscience		2010-2015

* graduated in 2015

	Post doctoral researchers affiliated with the Interdisciplinary Research Centre			
	Name post doctoral researcher	**Name of AU department where the post doc is employed**	**Name of the university/ research institute, where the post doc is employed**	**Period of affiliation**
1.	Cécile Pelaudeix	Culture and Society		24 Feb 2014 - 23 Feb 2017
2.	Christof Pearce	Geoscience		22 April 2014 – 30 Sept 2016
3.	Daniel Frazier Carlson	Bioscience		1 Sept 2015 - 31 Aug 2018
4.	Johnna Holding	Bioscience	IMEDEA, Spain	Aug-Sept 2015
5.	Joseph James Bowden	Bioscience		1 Aug 2013 - 31 July 2015
6.	Juliane Wischnewski	Bioscience		2013-2016
7.	Karl Attard		University of Southern Denmark	
8.	Kasper Hancke	Bioscience	University of Southern Denmark	SDU: until 31 March 2015 AU: 1 April 2015-31 March 2016
9.	Kevin K Clausen	Bioscience		1 Oct 2013 - 14 Oct 2016
10.	Laura Levy	Geoscience		1 July 2014 – 30 June 2017
11.	Leendert Vergeynst	Bioscience		1 Feb 2015 – 31 Jan 2017
12.	Mandana Ghisari	Public Health		
13.	Matthew Walsh	Culture and Society		1 Nov 2015 - 30 Oct 2017
14.	Morten Larsen		University of Southern Denmark	
15.	Nicolas Van	Geoscience		1 March 2015 – 15

	Nieuwenhove			July 2016
16.	Nicolas-Xavier Geilfus	Bioscience		1 Oct 2013 - 25 Nov 2015
17.	Pelle Tejsner	Culture and Society		1 Feb 2014 - 31 Jan 2017
18.	Peter Stief		University of Southern Denmark	
19.	Sandra Cassotta Pertoldi-Bianchi	Law		1 Jan 2015 – 31 Dec 2015
20.	Sean P O'Neill	Culture and Society		1 Sept 2015 - 31 Aug 2017

Activities to strengthen skills and qualifications of PhD students/ postdocs organised by the Interdisciplinary Research Centre

	Activity (*Title and type of activity, e.g. conferences, workshops, courses, etc.)*	**Participants from AU** *(Name and department)* [2]	**External participants** *(Name and institute)*
1.	ARC Annual Meeting, 25-26 November, Sandbjerg Estate	See appendix	
2.	Workshop on impact of climatic drivers on coastal ecosystems in Greenland, 23-24 June, ARC	Mikael Sejr	
3.	Forging of Cultures in the Circumpolar North, 24-25 September, Moesgaard Museum	See appendix	See appendix
4.	University of the Arctic Post-graduate Summer school, ARC/CIRCLA, 12-15 August, Nordkraft	Pelle Tejsner	
5.	PhD course in Arctic health research, 2-5 October, Nuuk	Eva C Bonefeld-Jørgensen	

4. Awards and External Funding

Prizes and awards received by the researchers affiliated with the Interdisciplinary Research Centre

Name of researcher	**Prize / award**
Merete Bilde	Nordic Aerosologist Award 2015
Pelle Tejsner	Dept. of Anthropology/AU SeedMoney for Extractive Industries Cluster

[2] Please submit lists of participants

External funding received by the researchers affiliated with the Interdisciplinary Research Centre					
Name of grant holder	**Name of grant**	**Name of funding organization**	**Amount granted to AU**	**Total amount granted**	**Name of partners and institutions involved**
Christian Sonne	ZORRO	Nordic Council of Ministers	250.000	250.000	Germany, Norway, Sweden, Greenland, Faroe Islands
Christian Sonne	NewRaptor	Norwegian Research Council	500.000	500.000	Norway, Belgium
Dorte Krause-Jensen	Field expeditions - Drivers and patterns of thermal tolerance of Greenland marine biota	Carlsbergfonden	179.480	179.480	Carlos M. Duarte, KAUST, Saudi Arabia & Tromsø University, Norway, Scott Bennett, IMEDEA, Spain, Nuria Marbá, IMEDEA, Spain
Eva C. Bonefeld-Jørgensen	HUMBIO: Human Biomonitering med geografisk fordeling i Grønland 2011-2014	Miljøstyrelsen, Dancea	999.192	999.192	Centre de toxicologie du Québec / INSPQ, Canada; The Biology Department, University of Guelph, Canada; Dept

					of Environmental Science, AU
Henrik Skov	Climate forcers in the High Arctic (CLIF)	Dancea	1.500.000	1.500.000	Dept of Environmental Science
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Reinholdt W. Jorck og Hustrus Fond	15.000	15.000	
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Augustinus Fonden	12.000	12.000	
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Christian og Ottilia Brorsons Rejselegat	10.000	10.000	
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Niels Bohr Fondet	10.000	10.000	
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Marie og M.B. Richters Fond	5.000	5.000	
Ingeborg Elbæk Nielsen	Research stay at UC Davis, April-July 2015	Selskabet for Arktisk Forskning og Teknologi - SAFT	5.000	5.000	
Jacob Nabe-Nielsen	Ændringer i vegetationssammensætningen i relation til klimatiske gradienter i Young Sund, Nordøstgrønland	Dancea	547.343	547.343	
Jakob Sievers	Post-doctoral grant	Villum foundation		1.198.000	AU, University of Manitoba
Jean-Pierre Desforges	Post-graduate scholarship	NSERC	315.000	315.000	AU
Jean-Pierre Desforges	North-2-north mobility grant	University of the Arctic	11.192	11.192	AU
Kai Finster	More than methane: greenhouse gas regulation by coastal Arctic permafrost	JPI Climate- Topic 2: Russian Arctic and Boreal systems	1.237.197,60		Andrew Hudson, Sheffield, UK, Hanne

					Christiansen UNIS, Norway, Jacob Yde HISF Sogndal, Norway, PI: Steve Thronton, Sheffield, UK
Kai Finster	Life is in the Air! - Forecasting the implications of air- borne microbes for weather and climate.	Aarhus Universitets Forskningsfond	2.522.901	2.522.901	Ulrich Gosewinkel Karlson, Dept of environmental science, AU & Merete Bilde, Dept of Chemistry, AU
Lise Lotte Sørensen	Educate the next generation of Arctic researchers, experts and consultants in Arctic resource and environment management and climate adaptation	University of the Arctic/Polarsekretariatet ved Uddannelses- og forskningsministeriet	495.000	495.000	
Lise Lotte Sørensen	Greenhouse gas exchange over the Arctic marine waters	Carlsbergfonden	140.000	140.000	
Lise Lotte Sørensen	Climate Change Teaching in Greenland	Nordic Council of Ministers - Arctic cooperation programme	200.000	200.000	
Marianne Glasius	Field expedition and research stay to investigate sources, processes and climate effects of organic aerosols in the Arctic	Carlsbergfonden	217.000	217.000	Dept of Chemistry
Marit-Solveig	NorthGreen2016	Dansk Center for	2.782.608	2.782.608	GEUS, KU, AU

Seidenkrantz		Havforskning			
Mikael Sejr	Effekt af smeltevand på marine økosystemers struktur og funktion	DANCEA	1.414.600	1.414.600	AU, University of Manitoba, Greenland Institute of Natural Resources
Mikael Sejr	Baffin Bay System Study	Dansk Center for Havforskning	1.041.000	1.041.000	AU, University of Manitoba
Pernille Falberg Rønn	Travel grant	Torben & Alice Frimodts Fond	20.000		AU, Steno Diabetes Center, Laval University, CHU de Québec Research centre
Pernille Falberg Rønn	Travel grant	Graduate School of Health, AU	35.000		AU, Steno Diabetes Center, Laval University, CHU de Québec Research centre
Pernille Falberg Rønn	Travel grant	International Congress of Circumpolar Health (ICCH16)	2.700		AU, Steno Diabetes Center
Rasmus Dyrmose Nørregaard	Post graduate scholarship for Arctic Research	Greenlandic Institute of Natural Resources	2.074.800	2.074.800	AU, GINR
Rasmus Dyrmose Nørregaard	Arctic Science Partnership Field Campaigns 2016	ARC/ASP – is this extern funding???	66.000	66.000	AU, GINR
Rasmus	Travel grant	Torben og Alice	47.500	47.500	AU, GINR

Dyrmose Nørregaard		Frimodts Fond, Augustinus Fonden, IDAs og Berg-Nielsens Studie- og Støttefond, Oticon Fonden			
Ronnie N Glud	Benthic diagenesis and microbiology of hadal trenches	ERC Advanced grant		24.000.000	University of Southern Denmark
Ronnie N Glud	Personal guest scholarship	Walter and Andree de Nottbeck Foundation		84.000	
Ronnie N Glud	EU project ATLAS	Horizon 2020		2.025.000	Robert et al
Rossana Bossi	Biomass burning tracers Arctic	Dancea	750.000	750.000	Dept of Environmental Science
Tage Dalsgaard	Support to annual meeting	Aarhus Universitets Forskningsfond	60.000	60.000	

External funding spent by the Interdisciplinary Research Centre – per year in total

Amount spent in 2013	Amount spent in 2014	Amount spent in 2015
87.167,58 DKK	567.127,56 DKK	12.736.340 DKK

5. Other (patents, etc.)

6. Please provide a short description of the progress of the centre, focusing on scientific milestones and results, research activities and possible changes in the research programme or organisation of the centre in relation to the original proposal/previous annual report, max. 5 pages.

Field campaigns

Villum Research Station

The main field campaign in 2015 was conducted at the newly established Villum Research Station at Station Nord in North-Eastern Greenland. Altogether 30 scientists worked there for 700 days divided in three campaign periods, April, May and August. In total 14,7 tons goods were transported to Greenland for field campaigns and 10,5 ton back home. On each leg, a logistic officer took care of the safety and cargo handling and helped in the field with practical issues.

The **atmospheric** group studied long-range transport of particle pollution to the Arctic and physical properties of Arctic aerosols (A Massling, M Bilde, M Glasius), greenhouse gas exchange over the Arctic Marine waters (LL Sørensen) as well as microbial atmospheric-terrestrial coupling driven by long distance transport and deposition (K Finster).

The **limnic and palaeoclimatic** groups investigated glacier melting rates, sea ice variability and ocean circulation (MS Seidenkrantz, N Nørgaard, S Ribeiro) as well as the climate and lake ecosystem dynamics using lake sediment records (NK Larsen, TL Lauridsen).

The **sea ice** group determined photosynthetic responses and acclimation of sea ice algae to changes in light climate (LC Lund-Hansen, B Sorrell) as well as the impact of snow cover on the inorganic carbon dynamic within sea ice (NX Geilfus).

Light is an important determinant of the algal development. Light conditions in the sea ice vary from snow pack (low light) to the formation of melt ponds (high light). Sea ice microalgae possess high photosynthetic plasticity to acclimate, which may depend of their niche habitats. Investigations of photoprotection and photoinhibition by bottom ice algae in response to irradiances and comparisons of photosynthetic properties between ice algae, sinking algae and underlying phytoplankton were carried out. Experiments of ice algae with different light treatments were realized during the entire sampling period.

Finally, the **oceanography** group carried out AUV measurements and investigated near-shore dynamics, circulation and hydrography around St. Nord (S Rysgaard).

Other campaigns

Climate change accelerates the melting of the Greenland Ice Sheet and terrestrial permafrost which leads to increased freshwater and organic carbon loading in marine waters. The Young Sound campaign 2015 focused on the effect of freshwater and terrestrial organic carbon loading on the carbon turnover in the fjord, quantified sedimentation and investigated the effects of this terrestrial particulate matter on sediment and water column biogeochemistry (T Dalsgaard, M Sejr).

Sea ice is composed of pure ice in different states of crystallization, pockets of brine (salt water) and various gasses. Understanding its formation, growth and melting is important in climate science, and the 2015 field campaign focussed on various aspects of sea ice.

ARC scientists studied the dynamics of ikaite at the Sea-ice Environmental Research Facility (SERF) of the University of Manitoba (S Rysgaard). Ikaite is a calcium carbonate hexahydrate ($CaCO3{\cdot}6H2O$) which forms in near-freezing waters, and the project developed a method to quantify ikaite in sea ice using dissolved inorganic concentration. Additional sea ice studies include investigations of brine structure and gasses in bulk sea ice.

Brine structure, or the liquid inclusions in sea ice, depends on the physical conditions in the atmosphere-sea ice environment, including melting processes. There exist relatively few observations and quantification of the morphology and vertical distribution of brine inclusions in sea ice. Now ARC scientists have gained new knowledge using advanced technology (magnetic 3.0 T resonance imager using constructive interference steady state gradient echo sequence) and imagined brine channels and pockets in an 18.5 cm young sea ice core (S Rysgaard). They constructed a three-dimensional image of a brine drainage channel feature in young sea ice core and observed its physical characteristics. The brine drainage channels are established with ice growth, and indicate the amount and location of fluid connectivity in the young sea ice – information that will be useful for future work on sea ice.

Gasses in the sea ice are a virtually unstudied area. ARC scientists analysed methane (CH_4) and carbon dioxide (CO_2) in sea ice and showed that subarctic sea water can be a sink for atmospheric CO_2 while being a net source of CH_4 (S Rysgaard). In fact, the methane concentration in sea ice is markedly higher than the average atmospheric methane content.

The oil industry is making its first entrance in Baffin Bay at the same time when Inuit hunters on the northwest coast of Greenland are struggling to maintain a traditional way of living. Anthropologist Pelle Tejsner has interviewed residents in the Upernavik district on the appearing challenges and opportunities when oil companies are entering in Baffin Bay. His research suggests that securing a high degree of local participation in oil projects requires both strategic investments and legislative adjustment. The Government of Greenland encourages the operating oil companies to promote local partnership in the projects to secure benefits to local residents. This requires, however, local interest to engage in these activities.

An emerging field of research is medical anthropology. MA student Mette Mørup Schlütter has interviewed Greenlandic mothers to study postpartum depression and identify the risk factors, and she is currently applying for funding for a follow-up study and PhD project.

The establishment of the Greenlandic geographical mother-child cohort (ACCEPT) was finalized in 2015. Almost 600 mothers from more than 10 towns and settlements were enrolled into the cohort. The overall conclusion was that women live healthier today, but still smoke too much. Their diet has changed to a more western diet, leading to lower levels of persistent organic pollutants (POPs) in the blood. The recommendation to Greenlandic authorities is to advice pregnant women to smoke less, breast feed longer, and consume more vegetables.

Scientists from two faculties, Health and Science & Technology, collaborated within the project PREDATOR, where the aim is to study POP levels in Inuit on the east coast of Greenland with a high intake of species at the high trophic levels, including killer whales, polar bears and seals. Results from a lifestyle and diet questionnaire as well as blood samples show a positive correlation between higher intake of marine mammals at the top of the food chain and higher levels of POP in the blood.

Publications

The main part of ARC's scientific output results from the field campaigns, and in 2015, we published 160 scientific publications. Additionally, the scientists authored a number of conference abstracts, poster presentations, and public outreach in form of reports/advice to the authorities in Greenland and Denmark, newspaper articles and similar.

Education

The first Arctic specialization, Master level courses in Arctic topics, was realized in Nuuk in the spring term 2015. The courses were organized in collaboration with Aarhus University, Greenland Institute for Natural Resources, and University of Manitoba through the Arctic Science Partnership collaboration, and University of Greenland. Altogether seven Danish and 12 international students attended on the courses. In addition to giving the education an Arctic touch, the courses are an important recruitment mechanism to attract new students to the centre, and two students from the first Arctic specialisation chose to carry out their MSc thesis at ARC.

Eight PhD students graduated during 2015, and a number of MSc and BSc students carried out their projects at ARC.

The Nordic master exchange programme Atmosphere-Biosphere-Study (ABS), in which AU participates was expanded and became more interdisciplinary and focused on the Arctic. ARC and Greenland Institute of Natural Resources together with other ABS partners established collaboration with the high schools in Greenland in 2015. This involved two joint workshops on horizontal learning and e-learning as well as several small seminars for the high school students.

Events

Villum Research Station in North-Eastern Greenland was established in 2014 with funding from the Villum Foundation, and in July 2015, the station was officially inaugurated. Research on the station includes atmospheric, marine and terrestrial projects as well as long-term monitoring of atmospheric pollution and the effects of climate change on arctic ecosystems. The station is open throughout the year, and it can host up to 14 scientists.

The **Forging of Cultures in the Circumpolar North** conference on 24-25 September 2015 at Moesgaard Museum aimed to explore interdisciplinary pathways to find new answers to old questions about the key drivers forging Arctic cultures. The conference presented a number of prominent speakers from archaeology and anthropology to ecology and health. The objective was to improve our understanding of the natural and historical mechanisms behind the cultural similarities and differences between the indigenous peoples in the circumpolar north. The conference papers will be published in two special issues, in Human Ecology and Human Nature.

ARC was one of the organisers of the biannual **MatchPoints Seminar**, which was entitled "Security and Governance in the Globalised Arctic: Nordic and International Perspectives". The main organizer, Michael Bøss from ARC and the School of Communication and Culture received an award from the mayor of Aarhus for his efforts in December 2015.

ARC organized the traditional **annual meeting** at Sandbjerg manor on 25-26 November 2015 with 54 participants, both students and staff. The programme focused on interdisciplinarity and a SWOT analysis to get input and ideas for the future of ARC.

The **Arctic Science Partnership** had its annual meeting in Vancouver on 5-6 December, where both the research, administration and communication teams met for two days. This meeting was hold back-to-back with ArcticNet Annual Scientific Meeting in which ARC also participated.

ARC scientists participated in a number of prominent international scientific events during the year, such as the annual meeting of the American Society for Limnology and Oceanography, Arctic Frontiers in Norway, Ilulissat climate days in Greenland, and last but not least, the 2015 United Nations Climate Change Conference (**COP 21**) in Paris, where Cécile Pelaudeix was a member in the Nordic panel.

Research programme and organization

ARC is coordinating the Isaaffik Arctic Gateway web portal (www.isaaffik.org) which was launched in April 2015. This initiative connects Arctic research, education, consultancy and logistics within the Kingdom of Denmark. During the development process, ARC participated in monthly project meetings with the other project partners.

Research funding
The year 2015 was characterized by a number of large funding applications, which received excellent evaluations. The Oil2sea proposal to Villum Foundation qualified to the final submission, and the 3rd round proposal was submitted in April 2015. Despite excellent evaluation ("Its approach is novel, intelligently organized, and well integrated", "perhaps the best Arctic team ever assembled"), the project did not receive funding. However, other proposals brought in almost 17,5 mill DKK of funding.

New staff and new facilities
ARC employed four new postdocs in 2015. **Leendert Vergeynst** investigates the degradation processes of oil in the Arctic and how oil acts in and around sea ice. When oil is stuck in the ice, there is a much smaller surface area to be colonized by bacteria, and this may also slow down the remediation of oil. Leendert also studies evaporation of the oil. He holds a PhD in bioscience engineering from the Ghent University, Belgium.

Daniel F Carlson studies the interplay between iceberg transport and degradation and upper ocean dynamics, and air-sea interactions in Godthab fjord and in Baffin Bay. He uses a combination of shipboard observations, remote sensing data, and Lagrangian modelling to study iceberg drift and deterioration. Dan graduated with a PhD in Physical Oceanography from the Hebrew University, Israel.

Matthew Walsh specializes in zooarchaeology and assessing change in prehistoric hunter-gatherer subsistence strategies. At ARC, he will focus on testing hypotheses regarding prehistoric migrations of high latitude hunter-gatherers through the application of cladistics and cultural phylogenetic methods. Matt Walsh received his PhD in anthropology from the University of Montana.

Sean O'Neill will study human adaptations and local receptions to climate change based on ethnographic and archaeological data from the Arctic in collaboration with Matthew Walsh. He holds a PhD in archaeology from the University of Aberdeen, UK.

Susanna Pakkasmaa started as centre manager in October 2015. She holds a PhD in biology, and has extensive experience in management and coordination of scientific research. In addition to daily administration, she also works with communication and research coordination and acts as PA for the centre director.

ARC moved to a new location in the campus in December 2015. In the building 1540, we occupy 12 offices and a meeting room. Currently, we use the laboratory facilities in the building 1130 but will move to building 1137 (Herbarium) in the spring 2016. The major advantage of the movement is a closer contact with colleagues at the Department of Bioscience and the proximity of the university and faculty administration.

Appendices: Participation lists

Arctic Science Partnership Annual Meeting, 5-6 Dec, Vancouver

Annie Eastwood (CEOS)
Carl Isaksen (GINR)
Cris Seaton (CEOS)
Dave Barber (CEOS)
Egon Frandsen (ARC)
Emma Kristensen (GINR)
Emmelia Wiley (CEOS)
Jørgen Berge (UiT)
Josephine Nymand (GINR)
Lene Kielsen Holm (GINR)
Linda Chow (CEOS)
Lorenz Meire (GINR)
Lucette Barber (CEOS)
Odile Crabeck (CEOS)
Peter Bondo Christensen (ARC)
Peter Schmidt Mikkelsen (GINR/ARC)
Søren Rysgaard (CEOS/ARC)
Susanna Pakkasmaa (ARC)
Tage Dalsgaard (ARC)
Tim Papakyriakou (CEOS)
Torben Røjle Christensen (Lund)
Wieter Boone (CEOS)

ARC annual meeting, 25-26 November, Sandbjerg

Anders Mosbech
Andreas Massling
Astrid Strunk
Cécile Pelaudeix
Christian Sonne
Dorte Krause-Jensen

Egon Frandsen
Elzbieta Wysocka
Eva Bonefeld-Jørgensen
Eva Friis Møller
Henrik Skov
Ida Rosendahl
Ingeborg Elbæk Nielsen
Jacob Klenø Nøjgaard
Jacob Nabe-Nielsen
Jakob Sievers
Jakob Thyrring
Jesper Kamp
Jesper Mosbacher
Jørgen Bendtsen
Kai Finster
Kaj Mantzius Hansen
Kasper Hancke
Lars Chresten Lund-Hansen
Leendert Vergeynst
Lis Bach
Lise Lotte Sørensen
Louise Kærholm Schæbel
Manhai Long
Maria Holst
Maria Wielsøe
Marit-Solveig Seidenkrantz
Matthew Walsh
Merete Bilde
Mikael Sejr
Mikhail Mastepanov
Mikkel P Tamstorf
Nicolaj K. Larsen
Nils Risgaard-Petersen
Pelle Tejsner
Pernille Falberg Rønn
Peter Schmidt Mikkelsen
Rane Willerslev
Robert Lange
Rossana Bossi

Rune Dietz
Signe Normand
Stig Andersen
Susanna Pakkasmaa
Søren Rysgaard
Tage Dalsgaard
Torben Linding Lauridsen
Torben Røjle Christensen
Urs Treier

Forging of Cultures in the Circumpolar North, 24-25 September, Moesgaard Museum

Participants from Aarhus University:
Anders Mosbech, Arctic Research Centre, Aarhus University
Cecile Pelaudiex, Arctic Research Centre
Claus Hindberg, Aarhus University
Djuke Veldhuis, Aarhus Institute of Advanced Studies
Elzbieta Wysocka, Aarhus University
Felix Riede, Aarhus University
Jeanette Lykkegård Nielsen, Aarhus University
Katrine Duus Terkelsen, Aarhus University
Kim M. Iburg, Aarhus University
Lea Kronborg Vestergaard, Aarhus University
Mai Korsbæk, Aarhus University
Maja D. Kadenic, Arctic Research Centre, Aarhus University
Malthe Lehrmann, Aarhus University
Marcello A. Mannino, Aarhus University
Marie Kahlig, Aarhus University
Marie-Louise Bang Rasmussen, Aarhus University
Martin Damgaard Larsen, Aarhus University
Matthew Walsh, Arctic Research Centre
Nikoline Larsen, Aarhus University
Ole Høiris, Aarhus University
Parnuna Egede, Aarhus University
Pelle Tejsner, Arctic Research Centre, Aarhus University

Peter Funch, Arctic Research Centre, Aarhus University
Rane Willerslev, Arctic Research Centre, Aarhus University
Rick William Scrivens, Aarhus University
Robert Lange, Arctic Research Centre, Aarhus University
Ron Fischer, Aarhus Institute of Advanced Studies
Sean O'Neill, Arctic Research Centre
Signe Normand, Arctic Research Centre, Aarhus University
Stine Vestbo, Aarhus University
Tage Dalsgaard, Arctic Research Centre
Toke Høye, Arctic Research Centre, Aarhus University

External participants
Anna Lisbeth Schmidt, National Museum of Denmark
Andrew Dugmore, University of Edinburgh
Peter Jordan, University of Groningen
Stuart Mclean, University of Minnesota
Anna M. Prentiss, University of Montana
Brian T. Wygal, Adelphi University
Gro Birgit Ween, Cultural History Museum, Oslo
Igor Krupnik, National Museum of Natural History, Washington
John Ziker, Boise State University
Olga Ulturgasheva, University of Manchester
Robert Brightman, Reed College
Susan A. Crate, George Mason University
Tom Gilbert, National Museum of Denmark
Jette Arneborg, National Museum of Denmark
Frank Sejersen, University of Copenhagen
Bjarne Grønnow, National Museum of Denmark
Ulla Odgaard, National Museum of Denmark
Peter Toft, National Museum of Denmark
Jens Kjaerulff, Aalborg University
Hanne Petersen, Copenhagen University
Ann E. Lenner, Greenland Institute of Natural Resources and Climate Research Centre
Jonas H Jaeger, University of Copenhagen
Parnuna Egede, University of Aalborg