



Curriculum Vitae

Name Katrine Raundrup
Position PhD, MSc / Research scientist
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Education PhD, Aarhus University, 2018
 MSc, University of Copenhagen, 2005



Experience

Period	Employer	Title
2009-	Grønlands Naturinstitut	Research scientist

Profile

I have a degree in biology from University of Copenhagen in 2005 and a PhD from Aarhus University in 2018. My masters was on behavioural effects of gastrointestinal parasite loads in muskoxen, while my PhD was on movement ecology of caribou. In my current position I work with the NuukBasic subprogram BioBasis, herbivores (caribou, muskoxen and sheep), interactions between herbivores and vegetation, parasitology (caribou, muskoxen and polar foxes) as well as terrestrial ecology in general. Further, since January 2011 I have been GINR's representative in EU's 7FP Cooperation Programme INTERACT and its continuation in EU's Horizon 2020 Programme. Since October 2016 I have been a board member of the INTERACT Transnational Access Board.

Selected projects

Business PhD-project. The project focused on movement patterns and resource selection in West Greenland caribou. Key points included analyses of long-range movement type, determination of home range sizes, drivers of habitat selection determined using resource selection functions, along with studies of decadal changes in vegetation composition and the consequences for caribou winter diet. In addition, long-term caribou harvest and trade data were analyzed to study the effect of Inuit hunting pressure.

BioBasis, Kobbefjord, Nuuk. The overall aim of the project is to document and study the effects of climate change on marine and terrestrial ecosystems in the Arctic. Since 2009 I have worked with data collection of ecological parameters in the terrestrial environment. The data collection covers e.g. plant phenology, passerine bird monitoring, C-flux measurements as well as freshwater lake monitoring. Further information: www.nuuk-basic.dk

Vegetation studies in the sheep farming districts in South Greenland. Further information on the project here: <http://www.natur.gl/en/environment-and-mineral-resources/forskning/afsluttede-projkaekter/vegetation>

INTERACT. INTERACT is an EU-financed infrastructure project, and is a circumarctic network of 77 land based field stations. In relation to INTERACT I have e.g. a coordinating function in WP4 regarding "Transnational Access" and I'm a board member of the Transnational Access Evaluation Board. Further information: www.eu-interact.org

Publications - Peer reviewed

Lund M, **Raundrup K**, Westergaard-Nielsen A., Blanco EL, Nymand J, Aastrup P. (2017) Larval outbreaks in West Greenland: instant and subsequent effects on tundra ecosystem productivity and CO₂ exchange. *AMBIO*, 46, Supplement 1, S26-S38. doi: 10.1007/s13280-016-0863-9.

Schmidt NM, Hardwick B, Gilg O, Høye TT, Krogh PH, Meltofte H, Michelsen A, Mosbacher JB, **Raundrup K**, Reneerkens J, Stewart L, Roslin T. (2017) Interaction webs in arctic ecosystems – determinants of arctic change? *AMBIO*, 46, Supplement 1, S12-S25. doi:10.1007/s13280-016-0862-x.

Damgaard CF, **Raundrup K**, Nabe-Nielsen, J Aastrup P, Langen PL, Feilberg J. (2016) Arctic resilience: No evidence of vegetation change in response to grazing and climate changes in Southwest Greenland. *Arctic, Antarctic and Alpine Research*, 48(3), 531-549. doi:10.1657/AAAR0016-005.

Alves SP, **Raundrup K**, Cabo Â, Bessa RJB, Almeida AM (2015) Fatty acid composition of muscle, adipose tissue and liver from muskoxen (*Ovibos moschatus*) living in West Greenland. *PLoSOne* 10(12):e0145241. doi:10.1371/journal.pone.0145241.

Ferreira AM, Marques AT, Bhide M, Cubric-Curik V, Hollung K, Knight CH, **Raundrup K**, Lipopolis JD, Palmer MV, Sales-Baptista E, Araújo SS, de Almeida AM (2015) Sequence analysis of a bitter taste receptor gene repertoires in different ruminant species. *PLoSOne* 10(6): e0124933. doi:10.1371/journal.pone.0124933.

Raundrup K, Moshøj CM, Wennerberg SE, Kapel CMO (2015) Spatiotemporal distribution of rabies in Arctic foxes in Greenland. *European Journal of Wildlife Research*, 61, 457-465. doi:10.1007/s10344-015-0917-5.

Samuelsson F, Nejsum P, **Raundrup K**, Hansen TVA, Kapel CMO. (2013) Warble infestations by *Hypoderma tarandi* (Diptera; Oestridae) recorded for the first time in West Greenland muskoxen. *International Journal for Parasitology: Parasites and Wildlife*, 2, 214-216. doi:10.1016/j.ijppaw.2013.06.001

Raundrup K, Al-Sabi MNS, Kapel CMO. (2012) First record of *Taenia ovis krabbei* muscle cysts in muskoxen from Greenland. *Veterinary Parasitology*, 184, 356-358. doi: 10.1016/j.vetpar.2011.09.010

Raundrup K, Levermann N, Poulsen M. (2012) Overlap in diet and distribution of two goose species suggest potential for competition at a common moulting area in West Greenland. *DOFT*, 106, 93-100.

Aastrup P, **Raundrup K**, Nyman J (2012) Overvågning af klimaeffekter i Kobbefjord, Vestgrønland. *Vand og Jord*, 19, 23-26.

Lauridsen TL, **Raundrup K**, Nyman J, Jeppesen E. (2011) Sjø-monitoring med henblik på vurdering af klimaændringer i lavarktis – en del af NuukBasic. *Vand og Jord*, 18, 116-119.

Raundrup K (2004) Muskoxen and their gastrointestinal parasites – A field study in Kangerlussuaq, West Greenland *in*: Holst B, Carlsen F (eds.) International Studbook: Muskox (*Ovibos moschatus*), Volume II 2002.

Raundrup K, Clemmensen S, Forchhammer MC, Kapel CMO. (2003) Field method for isolation of trichostrongyle larvae from vegetation of natural pastures of arctic ruminants. *Journal of Parasitology*, 89, 422-423. doi: 10.1645/0022-3395(2003)089[0422:FMFIOT]2.0.CO;2

Publications - Reports

Nabe-Nielsen J, Hansen OLP, Mathiasson M, Stewart L, Høye TT, Gervin C, **Raundrup K** (2016) Climate effects in terrestrial arctic ecosystems in Young Sund *in*: Jensen LM, Topp-Jørgensen E, Christensen TR, Schmidt NM (eds.) Zackenberg Ecological Research Operations, 20th Annual Report, 2014. Aarhus University, DCE – Danish Centre for Environment and Energy. 134p.

Olsen M, Nyman J, **Raundrup K**, Aastrup P, Krogh PH, Lauridsen TL, Lund M, Buchardt M (2016) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Topp-Jørgensen E, Christensen TR (eds.) Nuuk Ecological Research Operations, 8th Annual Report, 2014. Aarhus University, DCE – Danish Centre for Environment and Energy. 86p.

Aastrup P, Nyman J, **Raundrup K**, Olsen M, Lauridsen TL, Krogh PH, Schmidt NM, Illeris L, Ro-Poulsen H (2015) Conceptual design and sampling procedures of the biological pro-

gramme of NuukBasic. 2nd edition. Aarhus University, DCE – Danish Centre for Environment and Energy, Scientific Report from DCE No. 158, 68 pp.

Olsen M, Nymand J, **Raundrup K**, Aastrup P, Krogh PH, Lauridsen TL, Lund M, Albert K. (2014) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Christensen TR (eds.) Nuuk Ecological Research Operations, 7th Annual Report, 2013. Aarhus University, DCE - Danish Centre for Environment and Energy. 94p.

Aastrup P, **Raundrup K**, Feilberg J, Krogh PH, Schmidt NM, Nabe-Nielsen J. (2014) Effects of large herbivores on the biodiversity of vegetation and soil microarthropods in low Arctic Greenland - Akia, West Greenland and southern Greenland. Aarhus University, DCE - Scientific report from DCE – Danish Centre for Environment and Energy No. 87. 40p.

Bay C, Nymand J, Aastrup P, **Raundrup K**, Krogh PH, Lauridsen TL, Lund M, Albert K. (2013) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Rasch M (eds.) Nuuk Ecological Research Operations, 6th Annual Report, 2012. Aarhus University, DCE - Danish Centre for Environment and Energy. 92p.

Bay C, **Raundrup K**, Nymand J, Aastrup P, Krogh PH, Lauridsen T, Johansson LS, Lund M, Gavor Z, Jørgensen E. (2012) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Rasch M (eds.) Nuuk Ecological Research Operations, 5th Annual Report, 2011. Aarhus University, DCE - Danish Centre for Environment and Energy. 84p.

Cuylar C, Rosing M, Mølgaard H, Heinrich R, **Raundrup K**. (2011) Status of two West Greenland caribou populations 2010; 1) Kangerlussuaq-Sisimiut, 2) Akia-Maniitsoq. Pinngortitaleriffik – Greenland Institute of Natural Resources. Technical Report no. 78. 162p.

Nymand J, Aastrup P, **Raundrup K**, Lund M, Albert KR, Krogh PH, Rasmussen LM, Lauridsen TL. (2011) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Rasch M (eds.) Nuuk Ecological Research Operations, 4th Annual Report, 2010. National Environmental Research Institute, Aarhus University, Denmark. 83p.

Raundrup K, Aastrup P, Nymand J, Lauridsen TL, Johannsson LS, Krogh PH, Lund M, Rasmussen LM. (2010) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Rasch M (eds.) Nuuk Ecological Research Operations, 3rd Annual Report, 2009. National Environmental Research Institute, Aarhus University, Denmark. 80p.

Raundrup K, Aastrup P, Nymand J. (2010) Effects of climate change – Biological studies in Kobbefjord. Pamphlet in English, Danish, and Greenlandic.

Aastrup P, Nymand J, Lauridsen TL, Krogh PH, Rasmussen LM, **Raundrup K**, Albert K. (2010) Nuuk Basic: The BioBasis programme *in*: Jensen LM, Rasch M (eds.) Nuuk Ecological Research Operations, 2nd Annual Report, 2008. National Environmental Research Institute, Aarhus University, Denmark. 80p.

Aastrup P, Nymand J, **Raundrup K**, Lauridsen TL, Krogh PH, Schmidt NM, Illeris L, Røpoulsen H. (2009) Conceptual design and sampling procedures of the biological programme of NuukBasic. NERI Technical Report no. 745. National Environmental Research Institute, Aarhus University. 70p.

Conference proceedings

Alves SP, Cabo A, **Raundrup K**, Bessaa RJB, Almeida AM (2015) Fatty acid composition of fats from female and male muskoxen (*Ovibos moschatus*) living in western Greenland. Poster presented at ADSA-ASAS Joint Annual Meeting, 12-16 July 2015, Orlando, Florida, USA.

Raundrup K, Nymand J, Aastrup P, Nabe-Nielsen J (2015) Residence time as a measure of habitat choice in caribou in West Greenland. Poster presented at 14th International Arctic Ungulate Conference, 16-21 August 2015, Røros, Norway.

Raundrup K, Nabe-Nielsen J, Nymand J, Aastrup P. (2014) Challenges facing caribou in West Greenland when extensive changes in land use occur. NJF Seminar “Reindeer herding and land use management – Nordic perspectives”, 19-21 October 2014, Rovaniemi, Finland.

Raundrup K, Nymand J, Nabe-Nielsen J, Aastrup P. (2013) Caribou, individual based modeling and mega-industry in central West Greenland. Artek conference on “Sustainability in mining in the Arctic”, Sisimiut, Greenland, 9-11 April 2013.

Raundrup K, Aastrup P, Nymand J. (2011) BioBasis Nuuk – monitoring in low arctic Greenland. Poster presented at the AMAP conference “The Arctic as a Messenger for Global Processes - Climate Change and Pollution”, Copenhagen, Denmark, 4-6 May 2011.

Raundrup K, Aastrup P, Cuyler C. (2010) Satellite collared caribou in the Akia-Maniitsoq herd, central West Greenland – future perspectives. Poster presented at the 13th North American Caribou Workshop, Winnipeg, Canada, 25-28 October 2010.

Raundrup K, Levermann N (2005) Do the Greenland White-fronted geese stand a chance against the invasive Canadians. Poster presented at the 11th Biennial Meeting of Arctic Biology, Copenhagen, Denmark, 11 March 2005.

Reviewer

Global Change Biology

Other

Union representative for Dansk Magisterforening since May 2014.