

CURRICULUM VITAE Rolf Anker Ims

Born: Oslo 19/5-58

Citizenship: Norwegian

EDUCATION

University of Oslo (UoO): 1980-1989

1983: B.Sc. in chemistry, general biology, ecology, mathematics, statistics.

1985: M.Sc. in ecology.

1989: PhD in ecology

POSITIONS

1986-1989: Research associate (PhD stipendiat), Norwegian Research Council

1989-1991: Research associate, University of Oslo (UoO)

1992-2001: Professor of landscape ecology, Univ. of Oslo,

2001-present: Professor of Ecology, UiT- The Arctic Univ. of Norway,

1995-Present: Scientific Advisor (20%) Norwegian Institute of Nature Research,

TEACHING AND SUPERVISION

Course teaching

- High mountain ecology course (UoO) 1987
- General ecology (UoO) 1989-1990
- Boreal ecology and landscape ecology, (UoO) in 1989-2001.
- Biostatistics and ecological study designs, UoO 1992-2001
- Life history evolution, UoO 1994-2001
- Northern Populations and Ecosystems”, UiT (2001-2013)
- Northern food web ecology”, UiT (2014- present)

Supervision master degree students:

1. Tor Kviljo (1987)
2. Harry Andreassen (1990)
3. Karine Hertzberg (1992)
4. Elisabeth dos Santhos (1993)
5. Kjell Isaksen (1993)
6. Jon Aars (1993)
7. Ottar Bjørnstad (1993)
8. Thomas Hansteen (1994)

9. Edda Johannesen (1994)
10. Dag Hjermann (1994)
11. Kari W. Berg (1995)
12. Nina Hovland (1995)
13. Eva Irgens (1996)
14. Ingrid Prestegard (1996)
15. Elisabeth Klaussen (1996)
16. Bente Krey (1996)
17. Live Hesthagen (1996)
18. Hilde Antonsen (1997)
19. Hege Gundersen (1997)
20. Gry Gundersen (1997)
21. Mette Mauritzen (1997)
22. Jannecke A. Moe (1997)
23. Gustav Alexander Kielland (1997)
24. Anders Nielsen (1998)
25. Lise Brokhaug (1998)
26. Halvor Knutsen (1998)
27. Cecilie Hoxmark (1999)
28. Odin Tellesbø (2000)
29. Rine Carlsen (2000)
30. Therese Sigurdsen (2000)
31. Henrik Romsaas (2001)
32. Randi Storhaug (2001)
33. Petter Bøckmann (2002)
34. Dimitar Serbezov (2002)
35. Malin Lund (2003)
36. Mia Eikeset (2003)
37. Ragnhild Redse Mjaaseth (2003)
38. Gøril Einarsen (2004)
39. Hilde Kaarvatn Dahl (2005)
40. Simen Pedersen (2006)
41. Norun Hansen (2006)
42. Linda Aune (2006)
43. Elise Strømseng (2007)
44. Tino Schott (2007)
45. Raymond Sørensen (2007)
46. Phillip Mellison (2007)

47. Kristoffer Hovind Juell (2008)
48. Kristin Klausen (2008)
49. Jenny Stien (2008)
50. Erlend Lorentsen (2008)
51. Lisbeth Schnug (2009)
52. Gunhild Skogstad (2009)
53. Julie Kollstrøm (2009)
54. Elisabeth Raastad (2010)
55. Ragnild Røsseland (2010)
56. Ole Petter Vindstad (2010)
57. Saga Svavarsdottir (2010)
58. Stein-Even Fjellaksel (2010)
59. Johannes Bolstad (2010)
60. Leif E. Ollila (2010)
61. Karen Lone (2011)
62. Maja Sjöskog (2011)
63. Sabrina Schultze (2012)
64. Charlotte Lassen (2012)
65. Elinborg Palsdottir (2012)
66. Anders Voss Thingnes (2012).
67. Charmain Hamilton (2013).
68. Moritz Klinghardt (2013)
69. Mari Jacobsen (2014)
70. Silja Sletten (2014)
71. Maite Cerazo (2015)
72. Matt Fredlund (2015)
73. John Kristian Anda (2015)
74. Eivind Flittie Kleiven (2015)
75. Marita Antti Strømeng (2016)
76. Aurelie Delaye (2016)
77. Anthine Moen (2016)
78. Capucine Baubin (2016)
79. Ragnhild Bjørklund (2017)
80. Callum Bachell (2017)
81. Jennifer Ellengutter (2017)
82. Clemence Koren (2017)
83. Zina Gebir (2018)
84. Andrea Meltzer (2019)

85. Arin Underwood (2019)
86. Christian Stolz (2019)
87. Audun Narvestad (2019)
88. Samuel Llobet (2019)
89. Albert Gonzalez (2019)
90. Jonas Mölle (2020)
91. Clemet Brun (2020)

Supervision PhD- students (with titles of their theses):

1. Harald Steen (1995). Spatial aspects of population dynamics in small rodents.
2. Fred Midtgaard (1996). The significance of fragmentation of boreal forest for the occurrence of selected coleopteran.
3. Ottar Nordal Bjørnstad (1997). Statistical models for fluctuating populations.
4. Karine Hertzberg (1998). Population responses to habitat patchiness: Arctic collembola as a study system.
5. Atle Mysterud (1998). Habitat selection by roe deer relative to resource distribution and spatiotemporal scale.
6. Jon Aars (1998). Demography and genetics in spatially structured vole populations
7. Edda Johannesen (1999). Demographic responses to habitat fragmentation.
8. Harry P. Andreassen (2000). From individual behaviour to population spatiotemporal dynamics.
9. Anne Sverdrup-Thygeson (2000). Forest management and conservation: Woodland key habitats, indicator species and tree retention.
10. Bjørn Arne Rukke (2000). The significance of habitat fragmentation, spatial scale and microhabitat variables for wood fungi beetles.
11. Dag Ø. Hjermand (2000). Spatial ecology of the Bush cricket *Decticus verrucivorus*: movements, metapopulation dynamics and genetic structuring in linear habitats.
12. Vera Hausner (2001). Scenarios for managing biodiversity in coastal birch forests fragmented by spruce.
13. Mette Mauritzen. (2002) Patterns and processes in female polar bear space use.
14. Gry Gundersen (2002). Dispersal in root voles: Population consequences and individual adaptations
15. Guldborg Søvik (2002). Population biology and life history of the oribatid mite *Ameronothrus lineatus* in a high arctic site
16. Olav Skarpaas (2003). Plant population dynamics in fragmented landscapes.
17. Hege Gundersen (2003). Vehicle collisions and wolf predation: Challenges in the management of a migrating moose population in southeast Norway.
18. Snorre B. Hagen (2005). Phenotypic variation within a sub-arctic insect-host plant system.
19. Christiane Hübner (2007). Spring stopover in the Arctic: Implications for migrating geese and their food plants.
20. Carla Freitas (2008). Habitat selection in arctic pinnipeds: Patterns, tactics and predictions in a dynamic environment.

21. John Magne Grindeland (2008). Pollination ecology of *Digitalis purpurea* - patterns and processes
22. John-Andre Henden (2009). Changing circumstances: Implications for the trophic dynamics and species conservation on the Fennoscandian Tundra.
23. Bård-Jørgen Bårdsen (2009) Risk sensitive reproductive strategies: The effect environmental unpredictability.
24. Jorg Welcker (2009). Behavioral and energetic response of Arctic-breeding seabirds to environmental variability
25. Carlos das Neves (2009). Cervid herpesvirus 2 infections in reindeer in Norway.
26. Virve T. Ravolainen (2009). Tundra plant diversity as influenced by biotic interactions.
27. Marius Warg Næss (2009). Pastoral Risk Management.
28. Rolf Rødven (2010). Causes and consequences of variation in life history of semi-domesticated reindeer.
29. Åshild Pedersen (2010). Converting sub-Arctic birch forests to spruce plantations- responses of predators and prey.
30. Siw T. Killengreen (2010). Sources of spatial variation in food web structure in low Arctic tundra.
31. Eeva M. Soininen (2012). Interactions between small rodents and their food plants in tundra habitats.
32. Petter Glorvigen (2012). Vole population cycles and the role of colonization.
33. Lasse Asmyhr (2012). Hunter's behavioural responses to changes in bag size and willow grouse density - implications for management and interpretation of harvest data.
34. Tino Schott (2013). Determinants and effects of moth population dynamics in altitudinal gradients of northern Fennoscandia.
35. Ester Rut Unnsteinsdottir (2014). The wood mouse *Apodemus sylvaticus* in Iceland: population dynamics and limiting factors at the northern edge of the species' range
36. Ole Petter Laksforsmo Vindstad (2015). Cyclically outbreaking geometrid moth in sub-arctic birch forest: the organization and impacts of their interactions with animal communities.
37. Jennifer Stien (2015). Nest predation of birds of conservation concern: Case studies of monitoring and management.
38. Mari-Anne Blanchet (2016). At-sea behaviour of the world's northernmost harbour seal (*Phoca vitulina*) population in a changing Arctic.
39. Trond Elling Barstad (2016). Seasonal adaptation, phenology and survival in gall-inducing sawflies (Tenthredinidae: Nematinae: Pontania).
40. Charmain Hamilton (2017). Challenges for ice-associated top trophic arctic animals in a changing climate.
41. Filippo Marolla (2020). Understanding and forecasting population dynamics in changing arctic ecosystems.
42. Magne Neby (2022). The role of diet in vole population cycles.
43. Isabell Eischeid (2022). Tundra vegetation from the sky.
44. Eivind Flittie Kleiven. Small rodent cycle seen through the lenses of wildlife cameras.

AFFILIATED POST DOCTORAL RESEARCHERS

Stafan Halle (1990-1993), Manuel Massot (1996), Harry P. Andreassen (2000-2001), Gry Gundersen (2003-2004), Anne Sverdrup-Thygeson (2002), Dorothee Ehrich (2002-2003, 2007-2010), Audun Stien (2001-2006), Zbigniew Borowski (2001-2002), Vera Hausner (2003-2004), Kari Anne Bråthen (2003-2005), Snorre B. Hagen (2005-2007), Jane U. Jepsen (2006-2008), Siw Killengreen (2011-2014), John-Andre Henden (2009-2014), Virve T. Ravolainen (2011-2014), Eeva Soininen (2012-2014), Fred Barraquand (2009-2013), Ole Petter Laksforsmo Vindstad (2015-2018), Edwige Bellier (2016-2018), Jarad Mellard (2016-2018), Magnus Magnusson (2019)

EDITORIAL WORK

Editor in chief of the journal of the Norwegian Zoological Society, **Fauna** 1989-1992
Associate editor in **The American Naturalist** (USA) (2001-2004) and **Journal of Animal Ecology** (UK) (1995-2015)

ADMINISTRATIVE WORK

- Member of the Research Council, Centre for Development and Environment, Univ. of Oslo, 1993-1995.
- Chairman Ph.D program in Biology ("studieutv."), Univ. of Oslo, 1992-1999
- Member of "Forskerutdanningsutvalget" at the Faculty of Natural Sciences and Mathematics, UiO, 1994-1998.
- Chair, Dept. of Zoology, University of Oslo, 2000-2001
- Member of the board of Department of Biology, UoO, 2000-2001
- Member of board: The Program Arctic Light and Heat (NFR), 1996- 2001
- Member of board: The Norwegian Biodiversity Program (NFR), 1997-2002.
- Chair of board: The NFR research programme "Arctic Ecosystem Responses to Climate" (ARKTØK), 2001
- Member of the board of Norwegian Institute of Nature Research, 1995-1996
- Member of the Norwegian National Committee for Polar Research, 2001-2006
- Vice-chair of board: The NFR-research program "Climate Effects". 2002-2004
- Council member of the International Arctic Science Committee. 2001-2006.
- Vice-Chair, Department of Biology, UiT, 2007-2009.
- Chair research group "Northern Populations and Ecosystems", (2010-2015)
- Chair of the Terrestrial Flagship Program "FRAM – High North Centre for Climate and the Environment, 2010-2018

- Member of the climate committee of the Norwegian Academy of Science 2012-2013, 2019-present.
- Board member, Swedish Infrastructure for Terrestrial Ecosystem Science (SITES), 2014-2018.
- Board Member, The Nansen Foundation, 2017-present
- Member of Environment Strategy Working Group (ENW SWG) in the European Strategy Forum on Research Infrastructures (ESFRI), 2016-2019
- Member of expert council for the Ministry of Climate and Environment on the state of Norwegian Ecosystems (2016-2017).
- Advisor to the Japanese Rock Ptarmigan Conservation project (2016-2019).
- Member the Terrestrial Strategy Group of the International Arctic Science Committee (2019-2022).

RESEARCH ACTIVITIES

Main current main research interests:

- Dynamics of population, communities and ecosystems, especially in boreal and Arctic environments
- Impacts of climate change on boreal and Arctic ecosystems
- Adaptive monitoring and management of populations and ecosystems

Past research grants (PI or Co-PI)

- Population dynamics of spatially structured populations. Project in the TERRØK-program at Svalbard (NFR). 1992-1995
- The role of habitat corridors as a means of preserving biodiversity in agricultural landscapes. NFR's Research Program on Cultural Landscapes .1992-1995
- Demography and dynamics in small and fragmented populations . The Biodiversity Program, NFR. 1994-1997.
- The role of spatial and temporal environmental variation in shaping diversity and dynamics in arctic collembola species assemblages. The Arctic Light and Heat Program (ALV), NFR.1996-1999.
- Species diversity and population viability in grasshoppers and bush crickets in fragmented habitats in the cultural landscape). NFR 1996-1999.
- Spatial scaling of movement patterns: A case study of the roe deer. NFR.1996-1998.
- Population biological experiments at Evenstad research station, NFR (1997-1999)
- Scale dependent spatial variation in abundance and genetics: Comparative studies on Carp Beetles NFR (1997-98)
- Large carnivores – interactions with domestic animals and multi-species management in a brown bear core area, NFR 1997-1998

- On the use of biological indicator tools in preserving biodiversity in managed boreal forest. Research Program: Forest environment, industry and society, NFR (1997-2000)
- Biodiversity in subarctic birch forests; Dynamics, structure and threats, NFR (1998-2002)
- Source-sink dynamics: an experimental approach, NFR (1999-2002)
- Plant population dynamics in fragmented landscapes, NFR (2000-2002)
- Spatial dynamics of sympatric populations of subarctic moths, NFR (Lep. Geometridae) (2000-2003)
- Spatial scaling of structural diversity in subarctic birch forest ecosystems and its relation to components of biodiversity, NFR (2001-2003)
- Ecosystem Finnmark: determinants of the structure and function of an Alpine/low arctic ecosystem, NFR (2003-2008)
- Determinants of spatio-temporal outbreak dynamics of Geometrid moth populations (2005-2007)
- Inferring regional patterns from local dynamics using spatially explicit simulation modelling and remote sensing data: The case of birch forest Geometrids in northern Fennoscandia. NFR (2006-2008)
- Arctic Predators as Indicators of Tundra Ecosystem State, NFR (2007-2010)
- ClimMoth: Climate warming and insect outbreaks in sub-arctic birch forest, NFR (2008-2012)
- EcoFinn. Ungulate overabundance, trophic cascades and subsidies. NFR (2009-2013).
- EcoCycles: Interacting impacts of land use and climate changes on ecosystem processes: from cyclic herbivores to predators of conservation concern. EU-BioDiversa (2009-2012)
- How to preserve the tundra in a warming climate: WP-Moth-reindeer-birch dynamics in northernmost Fennoscandia, Nordic Centre of Excellence, NORDFORSK (2011-2015)
- TundraSchoolnet, NFR (2014-2016)
- Arctic fox in Finnmark, The Norwegian Environment Agency (2004-).
- What comes after the new pest? Ecosystem transitions following insect pest outbreaks induced by climate change in the European high North. NFR (2015-2018).
- Sustainable management of renewable resources in a changing environment: An integrated approach across ecosystems. NFR (2015-2019)

Ongoing projects/grants

- COAT (Climate-ecological Observatory for Arctic Tundra), (2011->), UiT, Ministry of Science and Education, Research Council of Norway), Tromsø Research foundation, Arctic Mapping and Monitoring Program, Norwegian Environment Agency
- Northern Forest, NFR (2019-2023).

AWARDS AND DISTINCTIONS

- The Nansen Award, 1991.
- Member of the Norwegian Academy of Science, 2000
- Member of the Norwegian Academy of Polar Research , 2008
- Listed as Highly Cited Researcher in ISI Thomson, 2004
- Received UiT's Research & development price, 2015
- Received Research Council of Norway's price for outstanding research, 2016
- Member of Academia Borealis, 2016
- Member of the Royal Norwegian Society of Sciences and Letters (DKNVS) 2016,
- Placed on Reuters list of the world top climate scientists, 2021
- Received UiT's Dissemination price, 2022

PUBLICATIONS; INTERNATIONALLY REFEREED

1. **Imms**, R.A. 1985. The effect of pregnancy failure on the onset of reproduction in sympatric populations of *Clethrionomys rutilus* and *C. rufocanus*. *Ann. Zool. Fennici* 22: 309-312.
2. **Imms**, R.A. 1986. Pregnancy rates in small rodents: the consequences of differential onset of reproduction. *Oikos* 46:355-358.
3. Bondrup-Nielsen, S. & **Imms**, R.A. 1986. Spacing behaviour and reproduction in a peak population of *Clethrionomys glareolus*. *Holarct. Ecol.* 9: 109-112.
4. Bondrup-Nielsen, S. & **Imms**, R.A. 1986. Comparison of maturation of female *Clethrionomys glareolus* from cyclic and noncyclic populations. *Can. J. Zool.* 64: 2099-2102.
5. Fredga, K., **Imms**, R.A., Bondrup-Nielsen, S. & Fredriksson, R. 1986. Centric fission in *Microtus oeconomus*. A new locality in south east Norway. *Hereditas* 105: 169-170.
6. **Imms**, R.A. 1987. Differential reproductive success in a high density population of the grey-sided vole *Clethrionomys rufocanus*. *Oikos* 50: 103-113.
7. **Imms**, R.A. 1987. Male spacing systems in microtine rodents. *Am. Nat.* 130: 475-484.
8. **Imms**, R.A. 1987. Responses in spatial organization in relation to manipulations of the food resource in the vole *Clethrionomys rufocanus*. *J. Anim. Ecol.* 56: 585-596.
9. **Imms**, R.A. 1987. Determinants of competitive success in *Clethrionomys rufocanus*. *Ecology* 68: 1812-1818.
10. Bondrup-Nielsen, S. & **Imms**, R.A. 1988. Predicting stable and cyclic populations of *Clethrionomys*. *Oikos* 52: 178-185.
11. Stenseth, N.C., Bondrup-Nielsen, S. & **Imms**, R.A. 1988. A population dynamics model for *Clethrionomys*: sexual maturation, spacing behaviour and dispersal. *Oikos* 52:186-193.
12. **Imms**, R.A., Bondrup-Nielsen, S. & Stenseth, N.C. 1988. The temporal pattern of breeding in small rodents. *Oikos* 53: 229-234.
13. Bondrup-Nielsen, S. & **Imms**, R.A. 1988. Demography during a population crash in the wood lemming *Myopus schisticolor*. *Can. J. Zool.* 66: 2442-2448.
14. **Imms**, R.A. 1988. Spatial clumping of sexually receptive females induces space sharing among male voles. *Nature* 335: 541-543.
15. **Imms**, R.A. 1988. The potential for sexual selection in males: effect of sex ratio and spatiotemporal distribution of receptive females. *Evol. Ecol.* 2: 338-352.

16. **Ims**, R.A. & Stenseth, N.C. 1989. Divided the fruitflies fall. *Nature* 342: 21-22.
17. **Ims**, R.A. 1989. Kinship and origin effects on dispersal and space sharing in *Clethrionomys rufocanus*. *Ecology* 70: 607-616.
18. **Ims**, R.A. 1990. Determinants of natal dispersal and space use in the grey-sided vole *Clethrionomys rufocanus*: a combined field and laboratory experiment. *Oikos* 57: 106-113.
19. **Ims**, R.A. & Steen, H. 1990. Regional synchrony of cyclic microtine populations: a theoretical evaluation of the role of nomadic predators. *Oikos* 57: 381-387.
20. **Ims**, R.A. 1990. The ecology and evolution of reproductive synchrony. *Trends Ecol & Evol.* 5: 135-140.
21. **Ims**, R.A. 1990. On the adaptive value of reproductive synchrony as a predator swamping strategy. *Am. Nat.* 136: 485-498.
22. **Ims**, R.A. 1990. Male mate detection success in *Clethrionomys rufocanus*: the effect of the spatio-temporal distribution of receptive females. *Evol. Ecol.* 4: 57-61.
23. Bondrup-Nielsen, S. & **Ims**, R.A. 1990. Sexual size dimorphism in microtine rodents - are females larger than males or males smaller than males. *Evol. Ecol.* 4: 261-272.
24. Andreassen, H. & **Ims**, R.A. 1990. Responses of female grey-sided voles *Clethrionomys rufocanus* to malnutrition: a combined laboratory and field experiment. *Oikos* 59: 107-114.
25. Fredga, K., Jaarola, M., **Ims**, R.A., Steen, H. & Yoccoz, N. 1990. The 'common vole' in Svalbard identified as *Microtus epiroticus* by chromosome analysis. *Polar Research* 8: 283-290.
26. Steen, H., Yoccoz, N.G. & **Ims**, R.A. 1990. Predators and small rodent cycles: An analysis of a 79 year time series of small rodent population fluctuations. *Oikos* 59: 115-120.
27. Gaines, M., Stenseth, N.C., Johnson, M., & **Ims**, R.A. 1991. A response to solving the enigma of population cycles with a multifactorial perspective. *J. Mamm.* 72: 627-631.
28. Stacy, J.E., **Ims**, R.A., Stenseth, N.C. & Jakobsen, K.S. 1991. Fingerprinting of diverse species with DNA probes generated from immobilized single-stranded DNA templates. *Nucleic Acids Research* 19: 4004.
29. **Ims**, R.A. & Andreassen, H. 1991. Does kinship influence space use and dispersal in male grey-sided vole? *Oikos* 62: 216-220.
30. Kviljo, T., **Ims**, R.A., Stenseth, N.C. & Bondrup-Nielsen, S. 1992. Reproduction and growth in bank voles, *Clethrionomys glareolus*: The effect of food-quality and density manipulation in a laboratory colony. *Ecography* 15: 221-225
31. Wiens, J.A., Stenseth, N.C., Van Horne, B., & **Ims**, R.A. 1993. Ecological mechanisms and landscape ecology. *Oikos* 66: 369-380.
32. **Ims**, R.A., Rolstad, J. & Wegge, P. 1993. Predicting space use responses to habitat fragmentation: can voles *Microtus oeconomus* serve as an experimental model system for Capercallie Grouse *Tetrao urogallus* in boreal forest? *Biological Conservation* 63: 261-268.
33. **Ims**, R.A., Bondrup-Nielsen, S., Fredga, K., & Fredriksson, R. 1993. Habitat use and spatial distribution of the wood lemming *Myopus schisticolor*. In: Stenseth, N.C. & **Ims**, R.A. *The Biology of Lemmings*. Academic Press, London, pp. 509-518
34. Bondrup-Nielsen, S., **Ims**, R.A., Fredga, K. & Fredriksson, R. 1993. Demography of the wood lemming *Myopus schisticolor*. In: Stenseth, N.C. & **Ims**, R.A. *The Biology of Lemmings*. Academic Press, London, pp. 493-508
35. Fredga, K., Fredriksson, R., Bondrup-Nielsen, S. & **Ims**, R.A. 1993. Sex ratio, chromosomes and isozymes in natural populations of the wood lemming *Myopus schisticolor*. In: Stenseth, N.C. & **Ims**, R.A. *The Biology of Lemmings*. Academic Press, London, pp. 465-492
36. Heske, E.J., **Ims**, R.A., & Steen, H. 1993. A summer decline in a Norwegian rodent assemblage: four experiments. In: Stenseth, N.C. & **Ims**, R.A. *The Biology of Lemmings*. Academic Press, London, 411-424.

37. Stenseth, N.C. & **Ims**, R.A. 1993. History of lemming research: From the Nordic Sagas to "The Biology of Lemmings". In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 3-34
38. Stenseth, N.C. & **Ims**, R.A. 1993. Lemmings: who are they, where do we find them and where do they come from? In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 61-96
39. Stenseth, N.C. & **Ims**, R.A. 1993. Population dynamics of lemmings: Temporal and Spatial variations. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 61-97
40. Stenseth, N.C. & **Ims**, R.A. 1993. Food selection, individual growth and reproduction. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 263-280
41. Stenseth, N.C. & **Ims**, R.A. 1993. Intra- and interspecific relations. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 341-355
42. Stenseth, N.C. & **Ims**, R.A. 1993. Population biology of lemmings with skewed sex ratios. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, 449-463.
43. Stenseth, N.C. & **Ims**, R.A. 1993. The biology of lemmings: A conclusion with a look forward to future challenges? In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 521-532
44. Stenseth, N.C. & **Ims**, R.A. 1993. Techniques for studying the population biology of lemmings. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 535-546
45. Yoccoz, N.G., Steen, H., **Ims**, R.A. & Stenseth, N.C. 1993. Estimating demographic parameters and the population size: An updated methodological survey. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 565-588
46. Andreassen, H., **Ims**, R.A., Stenseth, N.C. & Yoccoz, N.G. 1993. Investigating space use by means of radiotelemetry: a methodological guide. In: Stenseth, N.C. & Ims, R.A. The Biology of Lemmings. Academic Press, London, pp. 589-618.
47. Yoccoz, N.G., **Ims**, R.A. & Steen, H. 1993. Growth and reproduction in island and mainland populations of the vole *Microtus epirocticus*. Can. J. Zool. 71: 2518-2527.
48. Stacy, J.E., Refseth, U.H., Thoresen, M., **Ims**, R.A. Stenseth, N.C. & Jakobsen, K.S. 1994. Genetic variability among root voles (*Microtus oeconomus*) from different geographic regions: populations can be distinguished by DNA fingerprinting. Biol. J. Linn. Soc. 52: 273-286.
49. Hertzberg, K., Leinaas, H.P. & **Ims**, R.A. 1994. Patterns of abundance and demography: collembola in a habitat patch gradient. Ecography 17: 349-359.
50. **Ims**, R.A. 1994. Litter sex ratio variation in colonies of two geographically distinct strains of the root vole *Microtus oeconomus*. Ecography 17: 141-146.
51. Aars, J., Andreassen, H. & **Ims**, R.A. 1994. Use of fluorescent pigment for establishing matrilineal relations in root voles. Mammalia 58: 649-655
52. **Ims**, R.A. 1995. Movement patterns in relation to landscape structures. In: Hansson, L., Fahrig, L. & Merriam, G. Mosaic Landscapes and Ecological Processes. Chapman & Hall pp. 85-109.
53. Aars, J., Andreassen, H. & **Ims**, R.A. 1995. Root voles: Litter sex ratio variation in fragmented habitats. J. Anim. Ecol. 64: 459-472
54. Lambin, X., **Ims**, R.A., Yoccoz, N.G. and Steen, H. 1995. Anti-predatory responses in small rodents: A comment to Ylönen. Trends Ecol. & Evol. 10: 204
55. Santos, E.M. dos, Andreassen, H.P. & **Ims**, R.A. 1995. Differential inbreeding tolerance in two geographically distinct strains of root voles *Microtus oeconomus*. Ecography 18: 238-247
56. Andreassen, H., Halle, S. & **Ims**, R.A. 1996. Optimal width of movement corridors: Not too narrow and not too wide. J. Appl. Ecology 33: 63-70.

57. Andreassen, H.P., **Ims**, R.A. & Steinset, O.K. 1996. The effects of discontinuity of movement corridors on male root vole movements. *J. Appl. Ecol.* 33: 55-70.
58. Johannesen, E. & **Ims**, R.A. 1996. Modelling survival rates in relation to habitat fragmentation and destruction in experimental populations of root voles. *Ecology* 77: 1196-1209.
59. Steen, H., **Ims**, R.A. & Sonerud, G. 1996. Spatial and temporal patterns of small rodent population dynamics at a regional scale. *Ecology* 77: 2365-2372.
60. Hjermmann, D.Ø. and **Ims**, R.A. 1996. Landscape ecology of the wart-biter (*Decticus verrucivorus*) in a patchy landscape. *J. Anim. Ecol.* 65: 768-780.
61. **Ims**, R.A. & Yoccoz, N.G. 1997. The study of transfer processes in metapopulations: emigration, dispersal and colonization. In: Hanski, I. & Gilpin, M. E. *Metapopulation dynamics: Ecology, Genetics and Evolution*, pp. 247-265.
62. **Ims**, R.A. 1997. Geographic variation in reproduction and body growth rates in the root vole. *Ecology* 78: 461-470.
63. Hansteen, T., Andreassen, H. and **Ims**, R.A. 1997. Effects of spatiotemporal scale on autocorrelation and home range estimators. *J. Wildl. Manage* 61: 280-290.
64. Fauske, J., Andreassen, H., & **Ims**, R.A. 1997. Spatial organization of root voles in a linear habitat. *Acta Theriol.* 42: 79-80.
65. Stacy, J.E., Jorde, P.E., Steen, H., **Ims**, R.A., Purvis, A. and Jakobsen, K.S. 1997. Lack of concordance between mtDNA gene flow and population density fluctuations in the bank vole. *Molecular Ecology* 6: 751-759.
66. Bjørnstad, O.N., Andreassen, H.P. & **Ims**, R.A. 1998. Effects of habitat patchiness and connectivity on the spatial ecology of the root vole (*Microtus oeconomus*). *J. Anim. Ecol.* 67: 127-140.
67. Mysterud, A. & **Ims**, R.A. 1998. Functional response in habitat use: Availability influences relative use in trade-off situations. *Ecology* 79: 1435-1441.
68. Andreassen, H.P. Hertzberg, K. and **Ims**, R.A. 1998. Space use responses to habitat fragmentation and connectivity in the root vole *Microtus oeconomus*. *Ecology* 79: 1223-1235.
69. Andreassen, H.P. and **Ims**, R.A. 1998. The effects of habitat destruction and patch isolation on fitness parameters in female root vole *Microtus oeconomus*. *J. Anim. Ecol.* 67: 941-952.
70. Aars, J., **Ims**, R.A., Liu, H.-P., Mulvey, M. and Smith, M.H. 1998. Bank voles in linear habitats show restricted gene flow as revealed by mtDNA. *Molecular Ecology* 7: 1383-1389.
71. Aars, J. and **Ims**, R.A. 1999. The effect of habitat corridors on rates of transfer and interbreeding between vole demes. *Ecology* 80: 1648-1655.
72. **Ims**, R.A. and Andreassen, H.P. 1999. Demographic synchrony in fragmented populations. In: Barrett, G. and Peles, J. *The ecology of small mammals at the landscape level: experimental approaches*, pp. 129-145, Springer-Verlag.
73. Sætre, G.-P., Kral, M., Bures, S. and R.A. **Ims** 1999. Dynamics of a clinal hybrid zone and a comparison with island hybrid zones of flycatchers. *J. Zool.* 247: 53-64.
74. **Ims**, R.A. and Andreassen, H.P. 1999. Effects of experimental habitat fragmentation and connectivity on vole demography. *J. Anim. Ecol.* 68: 839-852.
75. Aars, J., Johannesen, E. and **Ims**, R.A. 1999. Demographic consequences of movements in subdivided root vole populations. *Oikos* 84: 204-217.
76. **Ims**, R.A. 1999. Experimental landscape ecology. In: Wiens, J.A. and Moss, M.R. *Issues in Landscape Ecology*, pp. 45-50. Pioneer press, Colorado, USA
77. Mysterud, A., Larsen, P.K., **Ims**, R.A. & Østbye, E. 1999. Habitat selection by roe deer and sheep: Does habitat rankings reflect resource availability. *Can. J. Zool.* 77: 7776-783.

78. Yoccoz, N.G. and **Ims**, R.A. 1999. Demography of small mammals in cold regions: The importance of environmental variability. *Ecol. Bull.* 47: 137-144.
79. Bjørnstad, O.N., **Ims**, R.A., and Lambin, X. 1999. Spatial population dynamics: Analysing patterns and processes of population synchrony. *Trends Ecol. & Evol.* 14: 427-432.
80. Hovland, N., Andreassen, H.P. and **Ims**, R.A. 1999. Foraging behaviour of the root vole *Microtus oeconomus* in fragmented habitats. *Oecologia* 121: 236-244.
81. Mysterud, A. & **Ims**, R.A. 1999. Relating populations to habitat. *Trends Ecol & Evol.* 489-490.
82. Johannesen, E., Andreassen, H.P. and **Ims**, R.A. 2000. Spatial explicit demography: the effects habitat patch isolation has on vole matriline. *Ecology Letters* 3:48-57
83. Aars, J. and **Ims**, R.A. 2000. Population dynamic and genetic consequences of spatial density dependent dispersal in patchy populations. *Am. Nat.* 155: 252-265.
84. Johannesen, E., Andreassen, H.P. and **Ims**, R.A. 2000. The effect of patch isolation on reproductive synchrony in the root vole. *Oikos* 89: 37-41.
85. Nielsen, A. and **Ims**, R.A. 2000. Bumble bee pollination of the Sticky catchfly in a fragmented agricultural landscape. *Ecoscience* 7: 157-165.
86. Knutsen, H, Rukke, B.A., Jorde, P.E. and **Ims**, R.A. 2000. Genetic differentiation of the beetle *Bolitophagus reticulatus* (Coleoptera: Tenbrionidae) in a fragmented and continuous landscape. *Heredity* 84: 667-676
87. Coulson, S.J., Leinaas, H.P., **Ims**, R.A. and Søvik, G. 2000. Experimental manipulation of winter surface ice layer: The effects on a high arctic soil microarthropod community. *Ecography* 23: 299-306.
88. Hertzberg, K., Yoccoz, N.G., **Ims**, R.A. and Leinaas, H.P. 2000. The effects of spatial habitat configuration on recruitment, growth and population structure in arctic Collembola. *Oecologia* 124: 381-390.
89. **Ims**, R.A. and Andreassen, H.P. 2000. Spatial synchronization of vole population dynamics by predatory birds. *Nature* 408: 194-197.
90. Gliwicz, J. and **Ims**, R.A. 2000. Dispersal in the bank vole. *Polish Journal of Ecology* 48: 63-72.
91. Yoccoz, N.G., Hansson, L. and **Ims**, R.A. 2000. Geographical differences in size, reproduction and behaviour of bank voles in relation to density variations. *Polish Journal of Ecology* 48: 51-61.
92. **Ims**, R.A. and Hjermann, D.Ø. 2001. Condition dependent dispersal . In J. Clobert, J.D. Nichols, E. Dancin and A. Dhondt, editors . *Dispersal*. Oxford University Press, 203-216.
93. Gundersen, G., Johannesen, E., Andreassen, H.P. and **Ims**, R.A. 2001. Experimental source-sink dynamics: How sinks affect demography of sources. *Ecology Letters* 4: 14-21.
94. Andreassen, H.P. and **Ims**, R. A. 2001. Dispersal movements in patchy vole populations: the role of patch configuration, density-dependence and demography. *Ecology* 82: 2911-2926.
95. Gundersen, G., Aars, J., Andreassen, H., and **Ims**, R.A. 2001. Inbreeding in the field: An experiment on root vole populations. *Can. J. Zool.* 79: 1901-1905
96. Henttonen, H., Fuglei, E., Gower, C.N., Haukialmi, V., **Ims**, R.A., Niemimaa, J. and Yoccoz, N.G. 2001. *Echinococcus multilocularis* on Svalbard: Introduction of an intermediate host has enabled the local life cycle. *Parasitology* 123: 547-552.
97. Strann, K.-B., Yoccoz, N.G. and **Ims**, R.A. 2002. Is the heart of the Fennoscandian rodent cycle still beating? A 14-years study of small mammals and Tengmalm's owls in north Norway. *Ecography* 25: 81-87
98. Gundersen, G., Andreassen, H.P. and **Ims**, R.A. 2002. Individual and population level determinants of immigration success on local habitat patches: An experimental approach. *Ecology Letters* 5: 294-301.

99. Sverdrup-Thygeson, A. and **Ims**, R.A. 2002. The effect of forest clearcutting on the community of saproxylic beetles on aspen. *Biol. Cons.* 10: 347-357.
100. Andreassen, H.P., Stenseth, N.C., and **Ims**, R.A. 2002. Dispersal behaviour in and population dynamics of vertebrates. In: Bullock, J, Kenward, R., & Hails, R. *Dispersal Ecology*, Blackwell Science, pp. 237-256.
101. Aars, J. and **Ims**, R.A. 2002. Climatic and intrinsic determinants of population demography: the winter dynamics of tundra vole populations. *Ecology* 83: 3449-3456.
102. Hausner, V., Yoccoz, N.G., Strann, K.-B. and **Ims**, R.A. 2002. Changes in bird communities by planting non-native spruce in coastal birch forests of northern Norway. *EcoScience* 9: 470-481.
103. Mauritzen, M., Belikov, S.E., Boltunov, A.N., Derocher, A.E., Hansen, E., **Ims**, R.A., Wiig, Ø. & Yoccoz, N.G. 2003. Functional response in polar bear habitat use. *Oikos* 100: 112-124.
104. Johannesen, E., Aars, J., Andreassen, H.P. and **Ims**, R.A. 2003. A demographic analysis of vole population responses to fragmentation and destruction of habitat. *Population Ecology* 45: 47-58.
105. Hausner, V., Yoccoz, N.G., and **Ims** R.A. 2003. Selecting indicator traits for monitoring land use impacts: birds in northern coastal birch forests. *Ecological Applications* 13: 999-1012.
106. Søvik, G., Leinaas, H. P., **Ims**, R. A. and Solhøy, T. 2003. Population dynamics and life history of the oribatid mite *Ameronothrus lineatus* (Thorell 1871) (Oribatida, Acari) on the high arctic archipelago of Svalbard: a field study. *Pedobiologia* 47: 257-271.
107. Hagen, S.B., **Ims**, R.A. and Yoccoz, N.G. 2003. Density-dependent melanism in sub-arctic populations of winter moth larvae *Operophtera brumata*. *Ecological Entomology* 28: 659-665.
108. Pedersen, H.C., Steen, H., Kastedalen, L., Brøseth, H., **Ims**, R.A., Svendsen, W. and Yoccoz, N.G. 2004. Weak compensation of harvest despite strong density-dependent growth in Willow Ptarmigan, *Proc. R. Soc. Lond.* 271: 381-385.
109. Clobert, J., **Ims**, R. A., and Rousset, F. 2004. Causes, mechanisms and consequences of dispersal. In: Hanski, I and Gaggiotti, O. eds. *Ecology, genetics and evolution of metapopulations*. Academic Press, London. Pp. 307-336.
110. **Ims**, R.A., Leinaas, H.P. & Coulson, S. J. 2004. Spatial and temporal variation in patch occupancy and population dynamics in a model system of an Arctic Collembola species assemblage. *Oikos* 105: 89-100.
111. Yoccoz, N.G. and **Ims**, R.A. 2004. Spatial population dynamics of small mammals: some methodological issues. *Animal Biodiversity and Conservation* 27.1: 427-435.
112. **Ims**, R.A., Yoccoz, N.G. & Hagen, S.B. 2004. Do sub-arctic winter moth populations in coastal birch forest exhibit spatially synchronous dynamics? *J. Anim. Ecol.* 73: 1129-1136.
113. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W. & Shaver, S. 2004. Impacts of climate and ultra-violet B radiation on Arctic tundra and polar desert ecosystems: 1. Rationale, concepts and approach to the assessment. *Ambio* 33: 393-397.
114. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W. & Shaver, S. 2004. Past changes in arctic terrestrial ecosystems, climate and UV-B radiation. *Ambio* 33: 398-403.
115. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W., Shaver, S., Elster, J., Henttonen, H., Laine, K., Taulavuori, K., & Zöckler, C. 2004. Biodiversity, distributions and adaptations of Arctic species in the context of environmental change. *Ambio* 33: 404-417.

116. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W., Shaver, S. Elster, J., Jonsdottir, I. S, Laine, K., Taulavuori, K., & Zöckler, C. 2004. Responses to projected changes in climate and UV-B at the species level. *Ambio* 33: 418-435.
117. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W., Shaver, S. & Henttonen, H. 2004. Effects on the structure of Arctic ecosystems in the short- and long-terms. *Ambio* 33: 436-447.
118. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W. & Shaver, S. 2004. Effects on the function of Arctic ecosystems in the short- and long-terms. *Ambio* 33: 448-458.
119. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W., Shaver, S., Schaphoff, S. & Sitch, S. 2004. Effects on landscape and regional processes and feedbacks to the climate system. *Ambio* 33: 459-468.
120. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W., Shaver, S. Elster, J., Henttonen, H., Jonsdottir, I. S, Laine, K., Schaphoff, S., Sitch, S. Taulavuori, K., & Zöckler, C. 2004. Uncertainties in making assessments and recommendations for future research. *Ambio* 33: 474-479.
121. Callaghan, T., Björn, L.O., Chernov, Y., Chapin, T., Christensen, T., Huntley, B., **Ims**, R.A., Jolly, D., Matveyeva, N., Panikov, N., Oechel, W. & Shaver, S. 2004. Synthesis of impacts in four arctic subregions. *Ambio* 33: 469-473.
122. **Ims**, R.A. & Andreassen, H.P. 2005. Density-dependent dispersal and spatial population dynamics. *Proc. R. Soc. Series B* 272: 913-918.
123. **Ims**, R.A. & Fuglei, E. 2005. Trophic Interaction Cycles in Tundra Ecosystems and the Impact of Climate Change. *BioScience* 55: 311-322.
124. Mjaaseth, R.R., Hagen, S.B., Yoccoz, N.G. & **Ims**, R.A.. 2005. Phenology and abundance in relation to climatic variation in a sub-arctic insect herbivore – mountain birch system. *Oecologia* 145. 53-65.
125. Grindeland, J.M., Slettvold, N. & **Ims**, R.A. 2005. Effects of floral display size and plant density on pollinator visitation rate in a natural population of *Digitalis purpurea*. *Funct. Ecol.* 19: 383-390.
126. **Ims**, R.A. 2005. The role of experiments in Landscape Ecology. In: Wiens, J.A. and Moss, M. *Issues in Landscape Ecology*. Cambridge University Press, Cambridge; pp. 70-78.
127. Brunhoff, C., Yoccoz, N.G., **Ims**, R.A. and Jaarola, M. 2006. Glacial survival or late glacial colonization? Phylogeography of the root vole (*Microtus oeconomus*) in north-west Norway. *Journal of Biogeography* 33: 2136-2144.
128. Hagen, S.B., Sørlibråten, O., **Ims**, R.A. and Yoccoz, N.G. 2006. Is density-dependent melanism in winter moth larvae (*Operophtera brumata*): A countermeasure against enemies? *Environmental Entomology* 35: 1249-1253.
129. Rødven, R., Yoccoz, N.G., **Ims**, R.A. and Wiig, Ø. 2006. Estimation of jaw shape and dental wear in reindeer using modern geometric morphometrical methods. *Rangifer* 26: 29-34.
130. Fauchald, P., Rødven, R., Bårdsen, B.J., Langeland, K., Tveraa, T., and Yoccoz, N.G. & **Ims**, R.A. 2007. Escaping parasitism in the selfish herd: age, size and density-dependent warble fly infestation in reindeer. *Oikos* 116: 491-499.
131. Killengreen, S., **Ims**, R.A., Yoccoz, N.G., Bråthen, K.A., Henden, J.A. and Schott, T. 2007. Compositional characteristics of a low arctic ecosystem and the retreat of the Arctic fox. *Biological Conservation* 135: 475-488.
132. Hagen, S.B., Jepsen, J.U., **Ims**, R.A. and Yoccoz, N.G. 2007. Shifting altitudinal distribution of outbreak zones of winter moth *Operophtera brumata* in sub-arctic birch forest: a response to recent climate warming? *Ecography* 30: 2999-3007.

133. **Ims**, R.A., Yoccoz, N.G., Bråthen, K.A., Fauchald, P., Tveraa, T. and Hausner, V. 2007. Can reindeer overabundance cause a trophic cascade? *Ecosystems* 10: 607-622.
134. Dahl, H.K., Barrett, R.T. and **Ims**, R.A. 2007. Effects of supplementary feeding on provisioning and growth rates of Atlantic Puffin *Fratercula arctica* chicks in North Norway. *Atlantic Seabirds* 7: 133-143.
135. Tveraa, T., Fauchald, P., Yoccoz, N.G., **Ims** R.A., Aanes, R., and Høgda, K.A. 2007. What regulate and limit reindeer populations in Norway? *Oikos* 116: 704-713.
136. Bråthen, K.A., Gonzalez Tevendale, V., Iversen, M., Killengren, S, Ravolainen, V., **Ims**, R.A., Yoccoz, N.G. 2007. Endozoochory varies with ecological scale and context. *Ecography* 30: 308-320.
137. Bråthen, K.A., **Ims**, R.A., Yoccoz, N.G., Fauchald, P., Tveraa, T. and Hausner, V. 2007. Induced shift in ecosystem productivity? Extensive scale effects of abundant large herbivores. *Ecosystems* 10: 773-789.
138. Bårdsen, B.J., Fauchald, P., Tveraa, T., Langeland, K., Yoccoz, N.G. and **Ims**, R.A. 2007. Experimental evidence of a risk sensitive reproductive allocation in a long-lived mammal. *Ecology* 89: 829-837.
139. **Ims**, R. A., Henden, J.-A. and Killengreen, S. 2008. Collapsing population cycles. *Trends Ecol. & Evol.* 23: 79-86.
140. Jepsen, J. U., Hagen, S.B., **Ims**, R.A. and Yoccoz, N.G. 2008. Climate change and outbreaks of the geometrids *Operophtera brumata* and *Epirrita autumnata* in sub-arctic birch forest: evidence of a recent outbreak range expansion *J. Anim. Ecol.* 77: 257-264.
141. Freitas, C., Kovacs, K.M., **Ims**, R.A., Fedak, M.A. and Lydersen, C. 2008. Ringed seal post-moulting movement tactics and habitat selection. *Oecologia* 155: 193-204.
142. Fuglei, E., Stien, A., Yoccoz, N.G., **Ims**, R.A., Eide, N.E., Prestrud, P., Deplazes, P., Oksanen, A. 2008. Spatial distribution of *Echinococcus multilocularis*, Svalbard, Norway. *Emerging Infectious Diseases* 14: 73-75.
143. Fuglei, E. and **Ims**, R.A. 2008. Arctic fox and climate change. *Science Progress* 91: 175-191.
144. Einarsen, G., Hausner, V., Yoccoz, N.G. and **Ims**, R.A. 2008. Predation on artificial ground nest in birch forest fragmented by spruce plantation. *Ecoscience* 15: 141-149.
145. Hagen, S.B., Sørli Bråthen, O., **Ims**, R.A. and Yoccoz, N.G. 2008. Fluctuating asymmetry as an indicator of elevation stress and alpine distributional limits in mountain birch (*Betula pubescens*). *Plant Ecology* 195: 157-163.
146. Hagen, S.B., Jepsen, J.U., Yoccoz, N.G. and **Ims**, R.A. 2008. Anisotropic patterned population synchrony in climatic gradients indicates nonlinear climatic forcing. *Proc. R. Soc. Series B* 275: 1509-1515.
147. Freitas, C., Kovacs, K.M., Lydersen, C. and **Ims**, R.A. 2008. Using mixed-effects Cox proportional hazard models to infer habitat selection and predict habitat use. *J. Appl. Ecology* 45: 1213-1220.
148. Henden, J.A., Bårdsen, B.J., Yoccoz, N.G. and **Ims**, R.A. 2008. Impacts of differential prey dynamics on the potential recovery of endangered arctic fox populations. *J. Appl. Ecology* 89: 1086-1093.
149. Freitas, C., Kovacs, K., **Ims**, R.A. and Lydersen, C. 2008. Predicting habitat use by ringed seals (*Phoca hispida*) in a warming Arctic. *Ecological Modelling* 217: 19-32.
150. Hansen, N.M., **Ims**, R.A. and Hagen, S.B. 2009. No impact of pupal predation by shrews (*Sorex araneus*) on the altitudinal distribution of autumnal moth and winter moth (Lepidoptera: Geometridae) in sub-arctic birch forest. *Environmental Entomology* 38: 627-632.
151. Lecomte, N., Ehrich, D., **Ims**, R.A., Yoccoz, N.G. 2009 Toward understanding the effect of top predators on ecosystems. *F1000 Biology Reports* 2009, 1:26

152. Henden, J.A., **Ims**, R.A. & Yoccoz, N.G. 2009. Nonstationary spatial-temporal small rodent dynamics: evidence from long-term Norwegian fox bounty data. *J. Anim. Ecol.* 78: 636-645.
153. Freitas, C., Kovacs, K., **Ims**, R.A., Fedak, M. and Lydersen, C. 2009. Deep into the ice: overwintering and habitat selection in Atlantic Walrus. *Marine Ecology Progress Series* 375: 247-261.
154. Rødven, R., Männikkö, I., **Ims**, R.A., Yoccoz, N.G. and Folstad, I. 2009. Parasite intensity and fur colouration in reindeer calves – contrasting artificial and natural selection. *J. Anim. Ecol.* 78: 600-607.
155. Ehrich, D., Yoccoz, N.G. and **Ims**, R.A. 2009. Multi-annual density fluctuations and habitat size enhance genetic variability in two northern voles. *Oikos* 118: 1441-1452.
156. Pedersen, Å. Ø., Yoccoz, N.G. & **Ims**, R.A. 2009. Spatial and temporal patterns of artificial nest predation in mountain birch forests fragmented by spruce plantations. *European Journal of Wildlife Research* 55: 371-384.
157. Jepsen, J. U., Hagen, S.B., Høgda, K.A., **Ims**, R.A., Karlsen, S.R., Tømmervik, H.A. & Yoccoz, N.G. 2009. Monitoring the spatio-temporal dynamics of geometrid moth outbreaks in birch forest using MODIS-NDVI data. *Remote Sensing of Environment* 113: 1939-1947
158. Henden, J.A., Yoccoz, N.G., **Ims**, R.A., Bårdsen, B.-J. and Angerbjörn, A. 2009. Phase-dependent effect of conservation efforts in cyclically fluctuating populations of Arctic fox (*Vulpes lagopus*). *Biological Conservation* 142: 2586-2592.
159. Iversen, M., Bråthen, K.A., Yoccoz, N.G. and **Ims**, R.A. 2009. Predictors of plant phenology in a diverse high – latitude alpine landscape: Growth forms and topography. *Journal of Vegetation Science* 20: 903-915.
160. Jepsen, J.U., Hagen, S.B., Karlsen, S.R. and **Ims**, R.A. 2009. Phase-dependent outbreak dynamics of geometrid moths linked to host plant phenology. *Proc. R. Soc. Series B* 276: 4119-4128.
161. Post, E., Forchhammer, M.C., Bret-Harte, S., Callaghan, T.V., Christensen, T.R., Elberling, B., Fox, A.D., Gilg, O., Hik, D.S., Høye, T.T., **Ims**, R.A., Jeppesen, E., Klein, D.R., Madsen, J., McGuire, A.D., Rysgaard, S., Schindler, D.E., Stirling, I., Tamstorf, M.P., Tyler, N.J.C., van der Wal, R., Welker, J., Wookey, P.A., Schmidt, N.M. and Aastrup, P. 2009. Ecological dynamics across the Arctic associated with recent climate change. *Science* 325: 1355- 1358.
162. Soininen, E.M, Valentini, A., Coissac, E. Miquel, C., Gielly, L., Brochmann, C., Brysting, A.K., Sønstebo, J.H., **Ims**, R.A., Yoccoz, N.G. and Taberlet, P. 2009. Analysing diet of small herbivores: the efficiency of DNA barcoding coupled with high-throughput pyrosequencing for deciphering the composition of complex plant mixtures. *Frontiers in Zoology* 6:16 doi:10.1186/1742-9994-6-16.
163. Sonne, C., Bustnes, J.O., Herzke, D., Jaspers, V.L.B., Covaci, A., Halley, D.J., Moum, T., Eulaers, I., Eens, M., **Ims**, R.A., Hanssen, A., Erikstad, K.E., Johnsen, T., Schmug, L. Riget, F.F. and Jensen, A.L. 2010. Relationships between organohalogen contaminants and blood plasma clinical-chemical parameters in chicks of three raptor species from Northern Norway. *Ecotox & Env. Safety* 73: 7-17.
164. Stien, A., Voutilainen, L., Haukisalme, V., Fuglei, E., Mørk, T., Yoccoz, N.G., **Ims**, R.A. and Henttonen, H. 2010. Intestinal parasites of the Arctic fox in relation to the abundance and distribution of intermediate hosts. *Parasitology* 137: 149-157.
165. Henden, J.A., **Ims**, R.A., Yoccoz, N.G., Hellström, P. and Angerbjörn, A. 2010. Strength of asymmetric competition between predators in food webs ruled by fluctuating prey: The case of foxes in tundra. *Oikos* 119: 149-157.
166. Klaussen, K., Pedersen, Å., **Ims**, R.A. and Yoccoz, N.G. 2010. Prevalence of nest predators in a subarctic ecosystem. *European Journal of Wildlife Research* 56: 221-232.

167. Hagen, S.B., Jepsen, J.U., Schott, T. and **Ims**, R.A. 2010. Spatially mis-matched trophic dynamics: Cyclically outbreaking geometrids and their larval parasitoids. *Biol. Letters* 6: 566-569.
168. Ravolainen, V.T., Yoccoz, N.G., Bråthen, K.A., **Ims**, R.A., Iversen, M. and González, V.T. 2010. Additive partitioning of diversity reveals no scale-dependent impacts of large ungulates on the structure of tundra plant communities. *Ecosystems* 13: 157-170.
169. Stien, J., Yoccoz, N.G. and **Ims**, R.A. 2010. Nest predation in declining populations of Common Eiders: An experimental evaluation of the role of Hooded Crows. *Wildlife Biology* 16: 123-134.
170. Pedersen, Å.Ø., **Ims**, R.A., Yoccoz, N.G., Hausner, V.H., and Juell, K.H. 2010. Scale-dependent responses of predators and prey to spruce plantations in sub-arctic birch forest in winter. *Ecoscience* 17: 123-136.
171. Schott, T., Hagen, S.B., **Ims**, R.A. and Yoccoz, N.G. 2010. Are population outbreaks in sub-arctic geometrids terminated by larval parasitoids? *J. Anim. Ecol.* 79: 701-709.
172. Pedersen, Å.Ø., Yoccoz, N.G., **Ims**, R.A. and Sigurdson, T. 2010, Effects on non-native spruce plantations on small mammal communities in sub-arctic birch forest. *Forest Ecology and Management* 260: 331-338.
173. Vindstad, O.P.L., Hagen, S.B., Schott, T. and **Ims**, R.A. 2010. Spatially patterned guild structure in larval parasitoids of cyclically outbreaking geometrid hosts. *Ecological Entomology* 35: 456-463.
174. Jepsen, J.U., Kapari, L., Hagen, S.B., Schott, T., Vindstad, O.P.L., Nilssen, A.C. & **Ims**, R.A. 2011. Rapid northwards expansion of a forest insect pest attributed to spring phenology matching with sub-Arctic birch. *Global Change Biology* 17, 2071-2083.
175. **Ims**, R.A., Yoccoz, N.G., Killengreen, S. 2011. Determinants of lemming outbreaks. *PNAS* 108, 1970-1974.
176. Henden, J.A., **Ims**, R.A., Yoccoz, N.G., Sørensen, R. & Killengreen, S.T. 2011. Population dynamics of tundra voles in relation to configuration of willow thickets in southern arctic tundra. *Polar Biology* 34: 533-540.
177. Rodnikova, A., **Ims**, R.A., Sokolov, A., Skogstad, G., Sokolov, V., Shtro, V. & Fuglei, E. 2011. Red fox takeover of arctic fox breeding den: an observation from Yamal Peninsula, Russia. *Polar Biology* 34: 1609-1614.
178. Killengreen, S. T., Lecomte, N., Ehrich, D., Schott, T., Yoccoz, N.G. & **Ims**, R.A. 2011. The importance of marine vs. human induced subsidies in the maintenance of an expanding mesocarnivore in the Arctic tundra. *J. Anim. Ecol.* 80: 1049-1060.
179. Henden, J.A., **Ims**, R.A., Yoccoz, N.G. & Killengreen, S.T. 2011. Declining willow ptarmigan populations: The role of habitat structure and community dynamics. *Basic & Applied Ecology* 12: 413-422.
180. Vindstad, O.P.L., Hagen, S.B., Jepsen, J.U., Kapari, L., Schott, T., **Ims**, R.A. 2011. Phenological diversity in the interactions between winter moth (*Operophtera brumata*) larvae and parasitoid wasps in sub-arctic mountain birch forest. *Bull. Entom. Res.* 101, 705–714.
181. Lecomte, N., Ahlstrøm, Ø., Ehrich, D., Fuglei, E., **Ims**, R.A. & Yoccoz, N.G. 2011. Intrapopulation variability shaping stable isotope discrimination and turnover: experimental evidence in arctic foxes. *PLOS one* 6 (6) e21357
182. Hausner, V.H., Fauchald, P., Tveraa, T., Pedersen, E., Jernsletten, J.-L., Ulvevadet, B., **Ims**, R.A., Yoccoz, N.G. & Bråthen, K.A. 2011. Gost of development past: the impact of economic security policy on Sami pastoral ecosystems. *Ecology & Society* 16 (3)
183. Ravolainen, V.T., Bråthen, K.A., **Ims**, R.A., Yoccoz, N.G., Henden, J.A. & Killengreen, S.T. 2011. Rapid responses of productive Arctic plant communities to exclusion of small and large mammalian herbivores. *Basic & Applied Ecology* 12: 643-651.

184. Sigurdson, T, Pedersen, Å.Ø., Yoccoz, N.G., Haukialmi, V. & **Ims**, R.A. 2012. Are endoparasites of common shrews sensitive to tree species conversion in sub-Arctic birch forests? *Eur J. Forest Res.* 2012: 131:389–400
185. Ehrich, D., Henden, J.A., **Ims**, R. A., Killengren, S.T., Lecomte, N., Pokrovsky, I.G., Skogstad, G., Sokolov, A.A., Sokolov, V.A., & Yoccoz, N.G. 2012. The importance of willow thickets for ptarmigan and hares in shrub tundra: the more the better? *Oecologia* 168: 141-151.
186. Killengren, S.T., Strømseng, E., Yoccoz, N.G. & **Ims**, R.A. 2012. How ecological neighbourhoods influence the structure of the scavenger guild in low arctic tundra. *Diversity & Distributions* 18:563-574.
187. Glorvigen, P., Bjørnstad, O.N., Andreassen, H.P., and **Ims**, R.A. 2012. Settlement in empty versus occupied habitats: an experimental study on bank voles. *Population Ecology* 54: 55-63..
188. Le Galliard, J.F., Remy, A., **Ims**, R.A. and Lambin, X. 2012. Patterns and processes of dispersal behavior in Arvicoline rodents. *Molecular Ecology* 21: 505-523.
189. Prokovsky, I., Ehrich, D., **Ims**, R.A., Kulikova, O., Lecomte, N. and Yoccoz, N.G. 2012. Assessing the causes of breeding failure among the rough-legged buzzard (*Buteo lagopus*) during the nestling period. *Polar Research* 31: DOI: 10.3402/polar.v31i0.17294
190. **Ims**, R.A. and Henden, J.-A. 2012. Collapse of an arctic bird community resulting from ungulate-induced loss of erect shrubs. *Biological Conservation* 149:2-5
191. Sonne, C., Bustnes, J.O., Herzke, D., Jaspers, V., Covaci, A., Halley, D., Minagawa, M., Moum, T., Eulares, I., **Ims**, R.A., Hanssen, S.A., Erikstad, K.E., Johnsen, T.V., Shnug, L. and Jensen, A.L. 2012. Blood plasma clinical-chemical parameters as biomarker endpoints for organohalogen contaminant exposure in Norwegian raptor nestlings. *Ecotoxicol. Environ. Safety* 80: 76-83.
192. Gilg, O., Kovacs, K. M., Aars, J., Fort, J., Gauthier, G., Gremillet, D., **Ims**, R. A., Møltefte ,H., Moreau, J., Post, E., Schmidt, N. M., Yannic, G. and Bollache, L. 2012. Climate change and the ecology and evolution of Arctic vertebrates. *Annals of the New York Academy of Sciences* 1249: 166-190.
193. Menyushina, Ehrich, D., Henden, J.-A., **Ims**, R.A., and Ovsyanikov, N. 2012. The nature of lemming cycles on Wrangel: an island without small mustelids. *Oecologia* 179: 363-371.
194. Schmidt, N.M., **Ims**, R.A., Høye, T.T., Gilg, O., Hansen, L.H., Hansen, J., Lund, M., Fuglei, F., Forchhammer, M.C. and Sittler, B. 2012. Response of arctic predator guilds to collapsing lemming cycles. *Proc. R. Soc. Series B* 279: 4417-4422.
195. Schott, T., **Ims**, R.A., Hagen, S.B. and Yoccoz, N.G. 2012. Sources of variation in larval parasitism of two sympatrically outbreaking birch forest defoliators. *Ecological Entomology* 37: 471-479.
196. Stien, A., **Ims**, R.A., Albon, S.D., Fuglei, E., Irvine, R.J., Ropstad, E., Halvorsen, O., Langvatn, R., Loe, L-E., Veiberg, V. and Yoccoz, N.G. 2012. Congruent responses to weather variability in high-arctic herbivores. *Biology Letters* 8: 1002-1005.
197. Jepsen, J.U., Biuw, M., **Ims**, R.A., Kapari, L., Schott, T., Vindstad, O.P.L. & Hagen, S.B. 2013. Ecosystem impacts of a range expanding forest defoliator at the forest-tundra ecotone. *Ecosystems* 16: 561-575.
198. Hamel, S., Killengren, S.T., Henden, J.A., Eide, N.E., Roed-Eriksen, L., **Ims**, R.A. & Yoccoz, N.G. 2013. Towards good practice guidance in using camera-traps in ecology: influence of sampling design on validity of ecological inferences. *Methods in Ecology and Evolution* 4: 105-113.
199. Vindstad, O.P.L., Schott, T., Hagen, S.B., Jepsen, J.U., Kapari, L.T. and **Ims**, R.A. 2013. How rapidly do invasive birch forest geometrids recruit larval parasitoids? - Insights from comparison with a sympatric native geometrid. *Biological Invasions* 15: 1573-1589.

200. Hansen, B.B., Grøtan, V., Aanes, R., Sæther, B.E., Stien, A., Fuglei, E., **Ims**, R.A., Yoccoz, N.G. & Pedersen, Å.Ø. 2013. Climate events synchronize the dynamics of a resident vertebrate community in the high-Arctic. *Science* 339: 313-315.
201. Andreassen, H.P., Glorvigen, P., Remy, A. & **Ims**, R.A. 2013. New views on how population-intrinsic and community-extrinsic processes interact during the vole population cycles. *Oikos* 122: 507-515.
202. Lone, K., Aars, J. and **Ims**, R.A. 2013. Site fidelity of Svalbard polar bears revealed by mark-recapture positions. *Polar Biology* 36: 27-39.
203. Hamel, S., Killengreen, S.T., Henden, J.A., Yoccoz, N.G. & **Ims**, R.A. 2013. Disentangling the importance of interspecific competition, food availability, and habitat in species occupancy: recolonization of the endangered Fennoscandian arctic fox. *Biol. Conserv.* 160. 114-120.
204. Glorvigen, P., Andreassen, H.P. & **Ims**, R.A. 2013. Local and regional determinants of colonisation-extinction dynamics of a riparian mainland-island root vole metapopulation. *PlosOne* DOI: 10.1371/journal.pone.0056462
205. Angerbjörn, A., Eide, N.E., Dalén, L., Elmhagen, B., Hellström, P., **Ims**, R.A., Killengreen S., Landa, A., Meijer, T., Mela, M., Niemimaa, J., Norén, K., Tannerfeldt, M., Yoccoz, N.G. & Henttonen, H. 2013. Carnivore conservation in practice: replicated management actions on a large spatial scale. *Journal of Applied Ecology* 50: 59-67.
206. Ravolainen, V.T., Bråthen, K.A., **Ims**, R.A., Yoccoz, N.G., and Soininen, E.M. 2013. Landscape scale configuration of shrub patches is related to diversity of neighbouring herbaceous vegetation. *Plant Ecology and Distribution* 6: 257-268.
207. Henden, J.A., Yoccoz, N.G., **Ims**, R.A. & Langeland, K. 2013. How spatial variation in areal extent and configuration of labile vegetation states affect the riparian bird community in arctic tundra. *Plos One* 8 DOI:10.1371/journal.pone.0063312
208. Cornulier, T., Yoccoz, N.G., Bretagnolle, V., Brommer, J.E., Butet, A., Ecke, F., Elston, D.A., Framstad, E., Henttonen, H., Hörnfeldt, B., Huitu, O., Imholt, C., **Ims**, R.A., Jacob, J., Jedrzejewska, B., Millon, A., Petty, S.J., Pietiäinen, H., Tkadlec, E., Zub, K. & Lambin, X. 2013. Europe-wide dampening of population cycles in keystone herbivores. *Science* 340: 63-66.
209. Schott, T., Kapari, L., Hagen, S.B., Vindstad, O.P.L., Jepsen, J.U. & **Ims**, R.A. 2013. Predator release from invertebrate generalists does not explain geometrid moth (Lepidoptera: Geometridae) outbreaks at high altitudes. *Can. Entomol.* 145: 184–192.
210. Eulaers, I., Jaspers, V.L.B., Bustnes, J.O., Covaci, A., Johnsen, T.V., Halley, D.J., Moum, T., **Ims**, R.A., Hanssen, S.A., Erikstad, K.E., Herzke, D., Sonne, C., Ballesteros, M., Pinxten, R & Eens, M. 2013. Ecological and spatial factors drive intra- and interspecific variation in exposure of subarctic predatory bird nestlings to persistent organic pollutants. *Environmental International* 57-58: 25-33.
211. Soininen, E.M., Zinger, L., Gielly, L., Bellemain, E., Bråthen, K.A., Brochmann, C., Epp, L.S., Gussarova, G., Hassel, K., Henden, J.A., Killengreen, S.T., Rämä, S., Stenøien, H.K., Yoccoz, N.G., & **Ims**, R. A. 2013. Shedding new light on the diet of Norwegian lemmings: DNA metabarcoding of stomach content. *Polar Biology* 36:1069-1076.
212. Karlsen, S.R., Jepsen, J.U., Odland, A., **Ims**, R.A., & Elvebakk, A. 2013. Outbreaks by canopy feeding geometrid moth cause state-dependent shifts in understorey plant communities. *Oecologia* 173: 859-870.
213. Glorvigen, P., Gundersen, G., Andreassen, H.P. and **Ims**, R.A. 2013. The role of colonization in the dynamics of a patchy population of a cyclic vole species. *Oecologia* 173: 161-167.
214. Soininen, E.M., Ravolainen, V.T., Bråthen, K.A., Yoccoz, N.G., Gilelly, L. & **Ims**, R.A. 2013. Arctic rodents have diverse diets and flexible food selection. *Plos One* 8: DOI: 10.1371/journal.pone.0068128
215. **Ims** RA, Ehrich D, Forbes BC, Huntley B, Walker DA, Wookey PA, Berteaux D, Bhatt US, Bråthen KA, Edwards ME, Epstein HE, Forchhammer MC, Fuglei E, Gauthier

- G, Gilbert S, Leung M, Menyushina IE, Ovsyanikov NG, Post E, Raynolds MK, Reid DG, Schmidt NM, Stien A, Sumina OI Van der Wal R 2013. Terrestrial Ecosystems. Pages 385-440. In: Meltofte, H (ed) 2013. Arctic Biodiversity Assessment. Status and trends in Arctic biodiversity. Conservation of Arctic Flora and Fauna, Akureyri.
216. Meltofte, H., Barry, T., Berteaux, D., Bültmann, H., Christiansen, J. S., Cook, A., Dahlberg, A., Daniels, Fred J.A., **Ehrich**, D., Fjeldså, J., Fridriksson, Ganter, B., Gaston, A. J., Gillespie, L. J., Grenoble, L., Hoberg, E. P., Hodkinson, I. D., Huntington, H. P., **Ims**, R. A., Josefson, A. B., Kutz, S. J., Kuzmin, S. L., Laidre, K., L.; Lassuy, D. R., Lewis, P. N., Lovejoy, C., Michel, C., Mokievsky, V., Mustonen, T., Payer, D. C., Poulin, M., Reid, D. G., Reist, J. D., Tessler, D. F., Wrona, F. J. 2013. Synthesis: Implications for Conservation. I: *Arctic Biodiversity Assessment. Status and trends in arctic biodiversity*. Akureyri: Conservation of arctic flora and fauna 2013 ISBN 978-9935-431-22-6. pp. 20-65
 217. **Ims** R.A., Jepsen J.U., Stien A., Yoccoz N.G. 2013. Science Plan for COAT – Climate-ecological Observatory for Arctic Tundra. FramCentre Report Series 1. Fram Centre, Tromsø. Pp. 177.
 218. Bustnes, J.O., Bårdsen, B.J., Herzke, D., Johnsen, T.V., Eulaers, I., Ballesteros, M., Hanssen, S.A., Covaci, A., Jaspers, V.L.B., Eens, M., Sonne, C., Halley, D., Moum, T., Nøst, T.H., Erikstad, K.E., and **Ims**, R.A. 2013. Plasma concentrations of organohalogenated pollutants in predatory bird nestlings: Associations to growth rate and dietary tracers. *Environmental Toxicology and Chemistry* 32: 2520-2527.
 219. Hanssen, S.A., Bustnes, J. O., Schnug, L., Bourgeon, S., Johnsen, T. V., Ballesteros, M., Sonne, C., Herzke, D., Eulaers, I., Jaspers, V., Covaci, A., Eens, M., Halley, D. J., Moum, T. B., **Ims**, R. A. & Erikstad, K. E. 2013. Antiparasite treatments reduce humoral immunity and impact oxidative status in raptor nestlings. *Ecology and Evolution* 3: 5157-5166.
 220. Pokrovsky, I., Ehrich, D., **Ims**, R.A., Kulikova, O., Lecomte, N. & Yoccoz, N.G. 2013. Diet, nesting density, and breeding success of rough-legged buzzards (*Buteo lagopus*) on the Nenetsky Ridge, Arctic Russia. *Polar Biology* 37: 447-457.
 221. **Ims**, R.A., Henden, J.A., Thingnes, A. & Killengreen, S.T. 2013. Indirect food web interactions mediated by predator-rodent dynamics: Relative roles of lemmings and voles. *Biology Letters* 9 doi: 10.1098/rsbl.2013.0802.
 222. Hamilton, C., Lydersen, C., **Ims**, R.A. & Kovacs, K.M. 2014. Haul-Out Behaviour of the World's Northernmost Population of Harbour Seals (*Phoca vitulina*) throughout the Year. *Plos One* 9, e86055
 223. Barraquand, F., Høye, T., Henden, J.A., Yoccoz, N., Gilg, O., Schmidt, N., Sittler, B. & **Ims**, R. A. 2014. Demographic responses of a site-faithful and territorial predator to its fluctuating prey: Long-tailed skuas and arctic lemmings. *J. Anim. Ecology* 83: 375-387.
 224. Ravolainen, V.T., Kolstrøm, J., Bråthen, K.A., Yoccoz, N.G., and **Ims**, R.A., 2014. Complementary impacts of small rodents and ungulates limit tall shrub expansion in tundra. *J. Appl. Ecol.* 51: 234-241.
 225. Legagneux, P., Gauthier, G., Lecomte, N., Schmidt, N.M, Reid, D., Cadieux, M-C., Berteaux, D., Bêty, J., Krebs, C.J., **Ims**, R.A., Yoccoz, N.G., Morrison, R.I.G., Leroux, S.J., Loreau, M. & Gravel, D. 2014. Climate and body-size shape structure and functioning of arctic ecosystems. *Nature Climate Change* 4: 379-383.
 226. Odden, M., **Ims**, R.A., Støen, O.G., Swensson, J.E. and Andreassen, H.P. 2014. Bears are simply voles writ large: Social structure determine the mechanism of intrinsic population regulation in mammals. *Oecologia* 175: 1-10.
 227. Biuw, M., Jepsen, J.U., Cohen, J., Ahonen, S., Tejsvi, M., Aikio, S., Wäli, P.R., Vindstad, O.P.L., Markkola, A., Niemelä, P. and **Ims**, R.A. 2014. Long-term impacts of contrasting management of large ungulates in the Arctic tundra-forest ecotone: Ecosystem structure and climate feedback. *Ecosystems* 17: 890-905.

228. **Ims**, R.A., Alsos, I.G., Fuglei, E., Pedersen, Å.Ø. and Yoccoz, N.G. 2014. An assessment of MOSJ – The state of the environment in Svalbard. Report series Norwegian Polar Institute no. 144, Pp. 41. ISBN 978-82-7666-307-5
229. Vindstad, O.P.L., Schultze, S., Jepsen, J.U., Biuw, M., Kapari, L., Sverdrup-Thygesen, A. and **Ims**, R.A. 2014. Numerical Responses of Saproxylic Beetles to Rapid Increases in Dead Wood Availability following Geometrid Moth Outbreaks in Sub-Arctic Mountain Birch Forest. Plos One 9: doi:10.1371/journal.pone.0099624
230. Iversen, M., Fauchald, P., Langeland, K., **Ims**, R.A., Yoccoz, N.G. & Bråthen, K.A. 2014. Phenology and Cover of Plant Growth Forms Predict Herbivore Habitat Selection in a High Latitude Ecosystem. PlosOne 9 doi:10.1371/journal.pone.0100780
231. Soininen, E. M., Ehrich, D., Lecomte, N., Yoccoz, N.G., Tarroux, A., Berteaux, D., Gauthier, G., Gielly, L., Brochmann, C., Gussarova, G. & **Ims**, R.A. 2014. Sources of variation in small rodent trophic niche: new insights from DNA metabarcoding and stable isotope analysis. *Isotopes in Environmental and Health Studies*, 50: 361-381
232. Blanchet, A.-M., Lydersen, C., **Ims**, R. A., Lowther, A.D and Kovacs, K.M. 2014. Harbour seal *Phoca vitulina* movement patterns in the High Arctic archipelago of Svalbard, Norway. *Aquatic Biology* 21: 167-181.
233. Henden, J.A., Stien, A., Bårdsen, B.J., Yoccoz, N.G. and **Ims**, R.A. 2014. Community-wide carnivore response resulting from partial ungulate migration. *J. Appl. Ecol.* 51: 1525-1533.
234. Sokolova, N. A., Sokolov, A. A., **Ims**, R. A., Skogstad, G., Lecomte, N., Sokolov, V. A., Yoccoz, N. G., & Ehrich, D. 2014. Small rodents in the shrub tundra of Yamal (Russia): Density dependence in habitat use? *Mammalian Biology* 9: 306-312
235. Ehrich, D., **Ims**, R.A., Yoccoz, N.G., Lecomte, N., Killengreen, S., Fuglei, E., Rodnikova, A., Ebbinge, B., Menyushina, I., Nolet, B., Pokrovsky, I., Popov, I., Schmidt, N. M., Sokolov, A., Sokolova, N. & Sokolov, V. 2015. What can stable isotope analysis of top predator tissues contribute to monitoring of tundra ecosystems? *Ecosystems* 18: 404–416
236. Stien, J. & **Ims**, R.A. 2015. Management decisions and knowledge gaps: Learning by doing in a case of a declining population of Slavonian grebe (*Podiceps auritus*). *Wildlife Biology* 21: 44-50.
237. Pokrovsky, I., Ehrich, D., **Ims**, R.A., Kondratyev, A.V., Kruckenberg, H., Kulikova, O., et al. 2015. Rough-Legged Buzzards, Arctic Foxes and Red Foxes in a Tundra Ecosystem without Rodents. *PLoS ONE* 10(2): doi:10.1371/journal.pone.0118740
238. Soininen, E., Jensvoll, I., Killengreen, S.T. & **Ims**, R.A. 2015. Under the snow: A new camera traps open the white box of subnivean ecology. *Remote Sensing in Ecology and Conservation* doi: 10.1002/rse2.2.
239. Blanchet, A.-M., Lydersen, C., **Ims**, R. A. & Kovacs, K.M. 2015. B Seasonal, oceanographic and atmospheric drivers of diving behaviour in a temperate seal species living in the high Arctic. *PLoS ONE* 10:doi:10.1371/journal.pone.0132686
240. Vindstad, O. P., Jepsen, J.U. & **Ims**, R.A. 2015. Resistance of a sub-arctic bird community to severe forest damage caused by geometrid moth outbreaks. *European Journal of Forest Research* 134: 725-736.
241. Stien, J., Strann, K.B., Jepsen, J.U., Frivoll, V., and **Ims**, R.A. 2015. Breeding persistence of Slavonian Grebe (*Podiceps auritus*) at long-term monitoring sites: Predictors of a steep decline at the northern European range limit. *J. Ornith.* DOI 10.1007/s10336-015-1249-7
242. Jansson, R., C. Nilsson, E. H. Keskitalo, T. Vlasova, M.-L. Sutinen, J. Moen, F. Chapin III, K. Bråthen, M. Cabeza, T. V. Callaghan, B., Van Oort, H. Dannevig, I. A. Bay-larsen, R. A. **Ims**, and P. Aspholm. 2015. Future changes in the supply of goods and services from natural ecosystems: prospects for the European north. *Ecology and Society* 20(3): 32.

243. Jepsen, J.U., Vindstad, O.P., Barraquand, F., **Ims**, R.A. & Yoccoz, N.G. 2015. Continental scale travelling waves in forest geometrids in Europe: an evaluation of the evidence. *J. Anim. Ecol.* 85: 385-390..
244. Hamilton, C., Lydersen, C., **Ims**, R.A. & Kovacs, K. 2015. Predictions replaced by facts: a keystone species' behavioural responses to declining arctic sea-ice. *Biology Letters* 11: 20150803
245. Radchuk, V., **Ims**, R.A. & Andreassen, H.P. 2016. From individuals to population cycles: the role of extrinsic and intrinsic factors in rodent populations. *Ecology* 97: 720-732.
246. Aarnes S.G., Fløystad, I., Schregel, J., Vindstad, O.P.L., Jepsen, J.U., Eiken, H.G., **Ims**, R.A. & Hagen, S.B. 2016. Identification and Evaluation of 21 Novel Microsatellite Markers from the Autumnal Moth (*Epirrita autumnata*) (Lepidoptera: Geometridae). *Int. J. Mol. Sci.*, 16, 22541-22554.
247. Hamilton, C., Lydersen, C., **Ims**, R.A. & Kovacs, K. 2016. Coastal habitat use by ringed seals *Pusa hispida* following a regional sea-ice collapse: importance of glacial refugia in a changing Arctic. *Marine Ecology Progress Series* 545: 261-277
248. Stien, J. & **Ims**, R.A. 2016. Absence from the nest due to human disturbance induces higher nest predation risk than natural recesses in Common Eiders (*Somateria mollissima*). *Ibis* 158: 249-260.
249. Sokolov, A.A., Sokolova, N.A., **Ims**, R.A., Brucker, L. & Ehrich, D. 2016. Emergent rainy winter warm spells may promote boreal predator expansion into the Arctic. *Arctic* 69: 121-129.
250. Boonstra, R., Andreassen, H.P., Boutin, S., Husek, J., **Ims**, R.A., Krebs, C.J., Skarpe, C. & Wabakken, P. 2016. Why Do the Boreal Forest Ecosystems of Northwestern Europe differ from those of Western North America? *BioScience* 66: 722-734.
251. Blanchet M. A, Lydersen C., **Ims** R., Kovacs K.M. 2016. Making it through the first year: Ontogeny of movement and diving behaviour of harbour seals pups *Phoca vitulina* from Svalbard, Norway. *Marine Mammal Science* 32: 1340-1369.
252. Walker, D.A., Daniëls, F.J.A., Alsos, I., Bhatt, U.S., Breen, A.L. Buchhorn, M., Bültmann, H., Druckenmiller, L.A., Edwards, M.E. Ehrich, D., Epstein, H.E., Gould, W.A., **Ims**, R.A., Meltote, H., Raynolds, M.K., Sibik, J., Talbot, S.S. & Webber, P.J. 2016. Circumpolar Arctic vegetation: a hierarchic review and roadmap toward an internationally consistent approach to survey, archive and classify tundra plot data. *Environmental Research Letters* 11 (2016) 055005
253. **Ims**, R.A., Killengreen, S.T., Ehrich, D., Flagstad, Ø., Hamel, S., Henden, J.-A., Jensvoll, I. & Yoccoz, N.G. 2017. Ecosystem drivers of an arctic fox population at the western fringe of the Eurasian Arctic. *Polar Research* 36: DOI:10.1080/17518369.2017.1323621
254. Elmhagen, B., Berteaux, D., Burgess, R.M., Ehrich, D., Gallant, D., Henttonen, H., **Ims**, R.A., Killengreen, S.T., Niemimaa, J., Norén, K., Ollila, T., Rodnikova, A., Sokolov, A.A., Sokolova, N.A., Stickney, A.A. & Angerbjörn, A. 2017. Homage to Hersteinsson & Macdonald: Climate warming and resource subsidies cause red fox range expansion and arctic fox decline. *Polar Research* 36: DOI:10.1080/17518369.2017.1319109
255. Berteaux D., Thierry A.-M., Alisauskas R., Angerbjörn A., Buchel E., Ehrich D., Eide N.E., Flagstad Ø., Fuglei E., Gilg O., Goltsman M., Henttonen H., **Ims** R.A., Killengreen S.T., Kondratyev A., Kruckenberg H., Kulikova O., Landa A., Lang J., Menyushina I., Mikhnevich J., Norén K., Ollila T., Ovsyanikov N., Pokrovskaya L., Pokrovsky I., Rodnikova A., Roth J., Sabard B., Samelius G., Schmidt N.M., Sittler B., Sokolov A.A., Sokolova N.A., Stickney A., Unnsteinsdóttir E.R. & White P. 2017. Harmonizing circumpolar monitoring of Arctic fox: benefits, opportunities, challenges, recommendations. *Polar Research* 36: DOI:10.1080/17518369.2017.1319602
256. Berteaux, D., Gauthier, G., Dominé, F., **Ims**, R.A., Lamoureux, F.F., Esther, L. & Yoccoz, N.G. 2017. Effects of changing permafrost and snow conditions on tundra wildlife: critical places and times. *Arctic Science* 3: 65-90.

257. Henden, J.A., **Ims**, R.A., Fuglei, E. & Pedersen, Å.Ø. 2017. Changed Arctic-alpine food web interactions under rapid climate warming: Implication for Ptarmigan Research. Wildl. Biol. <https://doi.org/10.2981/wlb.00240>.
258. Fuglei, E., Blanchet, M.A., Unander, S., **Ims**, R.A. & Pedersen, Å.Ø. 2017. Hidden in the darkness of the Polar night: A first glimpse into winter migration of the Svalbard rock ptarmigan. Wildl. Biol. <https://doi.org/10.2981/wlb.00241>.
259. Hanssen, S.A., Sonne, C., Bustnes, J.O., Schnug, L., Bourgeon, S., Ballesteros, M., Eulaers, I., Moum, T., Johnsen, T.V., Kjelgaard-Hansen, M., Herzke, D., Jaspers, V.L.B., Covaci, A., Eens, M., Halley, D.J., Erikstad, K.E. & **Ims**, R.A. 2017. Anti-parasite treatment and blood biochemistry in raptor nestlings. Can J Zool 95: 685-693.
260. Henttonen, H., Gilg, O., **Ims**, R.A., Korpimäki, E. & Yoccoz, N.G. 2017. Ilkka Hanski and small mammals: from shrew metapopulations to vole and lemming cycles. Ann. Zool. Fenn. 54: 153-162.
261. Soininen, E.M., Zinger, L., Gielly, L., Yoccoz, N.G., Henden, J.-A. & **Ims**, R.A. 2017. Not only mosses – lemming winter diets as described by DNA metabarcoding. Polar Biology doi:10.1007/s00300-017-2114-3
262. Hamilton, C., Kovacs, K., **Ims**, R.A., Aars, J. & Lydersen, C. 2017. An Arctic predator-prey system in flux: climate change impacts on coastal space use by polar bears and ringed seals. J. Anim. Ecol. 86: 1054-1064.
263. Lagerholm, V.K., Norén, K., Ehrich, D., **Ims**, R.A., Killengreen, S.T., Abramson, N.I., Niemimaa, J., Angerbjörn, A., Henttonen, H., & Dalén, L. 2017. Run to the hills: gene flow among mountain areas leads to low genetic differentiation in the Norwegian lemming. Biol. J. Linn. Soc. 121: 1-14.
264. Hamilton, C., Kovacs, K., **Ims**, R.A., Aars, J., Strøm, H. & Lydersen, C. 2017. Spatial overlap among an Arctic predator, prey and scavengers in the marginal ice zone. Marine Ecology Progress Series 573: 45-59.
265. Bråthen, K.A., Ravolainen, V., Stien, A., Tveraa, T. & **Ims**, R.A. 2017. Rangifer management controls a climate-sensitive tundra state transition. Ecological Applications 27: 2416-2427.
266. Vindstad, O.P.L., Jepsen, J.U., Klinghardt, M., Ek, M. and **Ims**, R.A. 2017. Salvage logging of mountain birch after geometrid outbreaks: Ecological context determines management outcome. Forest Ecology and Management 405: 619-627.
267. **Ims**, R.A. and Yoccoz, N.G. 2017. Ecosystem-based monitoring in the age of rapid climate change and new technologies. Current Opinions in Sustainability Science 29: 170-176.
268. Pedersen, Å.Ø., Stien, J., Eidesen, P.B., **Ims**, R.A., Jepsen, J.U., Stien, A. and Fuglei, E. 2018. High goose abundance reduces nest predation risk in a simple rodent-free high-Arctic ecosystem. Polar Biol. 41: 619-627.
269. Hamilton, C. D., Kovacs, K.M., **Ims**, R.A. & Lydersen, C. 2018. Haul-out behaviour of Arctic ringed seals (*Pusa hispida*): inter-annual patterns and impacts of current environmental change. Polar Biol. 41: 1063-1082.
270. Kleiven, E. F., Henden, J.-A., **Ims**, R.A. and Yoccoz, N.G. 2018. Seasonal difference in temporal transferability of an ecological model: near-term predictions of lemming outbreak abundances. Scientific Reports 8:15252, DOI:10.1038/s41598-018-33443-6
271. Soininen, E.M., Henden, J.-A., Ravolainen, V.T., Yoccoz, K.A., Killengreen, S.T. & **Ims**, R.A. 2018. Transferability of biotic interactions: temporal consistency of arctic plant-rodent relationships is poor. Ecology & Evolution 8: 9697-9711.
272. Vacquie-Garcia, J., Lydersen, C., **Ims**, R.A. & Kovacs, K. 2018. Habitats and movement patterns of white whales *Delphinapterus leucas* in Svalbard, Norway in a changing climate. Movement Ecology 6: DOI: 10.1186/s40462-018-0139-z
273. Tryland, M., Balboni, A., Killengreen, S.T., Mørk, T., Nielsen, O., Yoccoz, N.G., **Ims**, R.A. & Fuglei, E. 2018. A screening for canine distemper virus, canine adenovirus and carnivore protoparvoviruses in Arctic foxes (*Vulpes lagopus*) and red foxes (*Vulpes vulpes*) from Arctic and sub-Arctic regions of Norway, Polar Research, 37:1, DOI: [10.1080/17518369.2018.1498678](https://doi.org/10.1080/17518369.2018.1498678)

274. Vindstad, O.P.L., Jepsen, J.U., Ek, M., Pepi, A. & **Ims**, R.A. 2019. Can novel pest outbreaks drive ecosystem transitions in northern-boreal birch forest? *J. Ecol.* 107 (3), 1141-1153.
275. Mørk, T., **Ims**, R.A. & Killengreen, S.T. 2019. Rodent population cycle as a determinant of gastrointestinal nematode abundance in a low-arctic population of the red fox. *IJP: Wildlife and Parasites* 9: 36-41.
276. Vindstad, O.P.L., Jepsen, J.U., Yoccoz, N.G., Bjørnstad, O.N. & Mesquita, M. & **Ims**, R.A. 2019. Spatial synchrony in sub-arctic geometrid moth outbreaks reflects dispersal in larval and adult lifecycle stages. *J. Anim. Ecol.* 88: 1134-1145.
277. Marolla, F., Aarvak, T., Øien, I.J., Mellard, J.P., Henden, J.A., Hamel, S., Stien, A., Tveraa, T., Yoccoz, N.G. & **Ims**, R.A. 2019. Assessing the effect of predator control on an endangered goose population subjected to predator-mediated food web dynamics. *J. Appl. Ecol.* 56: 1245-1255.
278. **Ims**, R.A., Henden, J.A., Thingnes, A.V., Garmo, M.J., Strømeng, M.A. & Jepsen, J.U. 2019. Greening Arctic and bird nest predation risk across tundra ecotones. *Nature Climate Change* 9: 607-610.
279. Ellgutter, J.A.C., Ehrich, D., Killengreen, S.T. **Ims**, R.A., & Unnsteinsdóttir, E.R. 2020. Dietary variation in Icelandic arctic fox (*Vulpes lagopus*) over a period of 30 years assessed through stable isotopes. *Oecologia* 192:403–414.
280. Fuglei, E., Henden, J.A., Callahan, C. Gilg, O., Hansen, J., **Ims**, R.A., Isaey, A.P., Lang, J., McIntyre, C., Merizon, R., Mineev, O.Y., Mineev, Y.N., Mossop, Nielsen, O.K., D. Nilsen, E.B., Pedersen, Å.Ø., Schmidt, N.M., Sittler, B., Willebrand, M.H. and Martin, K. 2020. Circumpolar status of arctic ptarmigan: Population dynamics and trends. *Ambio* . *Ambio* 49(3):749-761
281. Ehrich, D., Schmidt N.M., Gauthier, G., Alisauskas, R., Clark, K., Ecke, F., Eide, N., Framstad, E., Frandsen, J., Franke, A., Gilg, O., Giroux, M.A., Henttonen, H., Hörnfeldt, B., Ims, R.A., Kataev, G.B., Kharitonov, S., Krebs, C.J., Killengreen, S.T., Lancot, R.B., Lecomte, N., Menyushina, I., Morris, D.W., Morrisson, G., Oksanen, L., Oksanen, T., Olofsson, J., Pokrovsky, I.G., Popov, I., Reid, D., Roth, J., Samelius, G., Sittler, B., Slepsov, S., Smith, P., Sokolov, A.A., Sokolova, N.A., Soloviev, M. & Solovieva, D. 2020. Documenting lemming population change in the Arctic: Are we keeping the pace? *Ambio* 49(3):786-800
282. Pokrovsky, I., Ehrich, D., Fufachev, I., **Ims**, R.A., Kulikova, O., Sokolov, A., Sokolova, N., Sokolov, V. & Yoccoz, N.G. 2020. Nest association between two predators as a behavioral response to the low density of rodents. *Auk* 137 DOI: 10.1093/auk/ukz060
283. Henden, J.A., **Ims**, R.A., Yoccoz, N.G., Asbjørnsen, E.J., Stien, A., Mellard, J.P., Tveraa, T., Marolla, F. & Jepsen, J.U. 2020. End-user involvement to improve predictions and management of populations with complex dynamics and multiple drivers. *Ecological Applications*, 30 , e02120.
284. Vindstad, O.P.L., Birkemoe, T., **Ims**, R.A. & Thygeson, A.S., 2020. Environmental conditions alter successional trajectories on an ephemeral resource: A field experiment with beetles in dead wood. *Oecologia* 194: 205-219.
285. Schmidt, N.M., Gilg, O., Aars, J. & Ims, R.A. 2020. Fat, Furry, Flexible, and Functionally Important: Characteristics of Mammals Living in the Arctic. *Arctic Ecology* <https://doi.org/10.1002/9781118846582.ch13>
286. Henden, J.A., Ehrich, D., Soininen, E. & **Ims**, R.A. 2021. Accounting for food web dynamics when assessing the impact of mesopredator control on declining prey populations. *J Appl Ecol* 58:104–113.
287. Marolla, F., Henden, J.A., Fuglei, E., Pedersen, Å.Ø., Itkin, M. & **Ims**, R.A. 2021. Iterative model predictions for wildlife populations impacted by rapid climate change. *Global Change Biol.* - DOI: 10.1111/gcb.15518
288. Brun, C., Blanchet, M.-A., **Ims**, R.A. & Aars, J. 2021. Stability of space use in Svalbard coastal female polar bears: intra-individual variability and influence of kinship: Space use in Svalbard polar bears. *Polar Research* (in press).

289. Palomino-González, A, Kovacs, K.M., Lydersen, C., **Ims**, R.A., & Lowther, A.D (2021). Drones and Marine Mammals in Svalbard, Norway. *Marine Mammal Science*. 1-18, <https://doi.org/10.1111/mms.12802>
290. Llobet, S.M, Ahonen, H., Lydersen, C., Berge, J., **Ims**, R.A. & Kovacs, K.M. 2021. Bearded seal (*Erignathus barbatus*) vocalizations across seasons and habitat types in Svalbard, Norway. *Polar Biology* 44: 1273-1287.
291. Mellard, J.P., Hamel, S., Henden, J.A., **Ims**, R.A., Marolla, F., Stien, A., Tveraa, T. & Yoccoz, N.G. 2021. Effect of scavenging on predation in a food web. *Ecology & Evolution*. 2021;11:6742–6765.
292. Cubaynes, S., Aars, J., Yoccoz, N. G., Predel, R., Wiig, Ø., **Ims**, R.A. and Gimenes, O. 2021. Modeling the demography of species providing extended parental care: A capture–recapture multievent model with a case study on polar bears (*Ursus maritimus*). *Ecology & Evolution* DOI: 10.1002/ece3.7296
293. Mölle, J., F., Kleiven, E., E.F., **Ims**, R.A. & Soininen, E. 2021. Using subnivean camera traps to study Arctic small mammal community dynamics during winter. *Arctic Science*) [dx.doi.org/10.1139/as-2021-0006](https://doi.org/10.1139/as-2021-0006)
294. Fauteux, D., Stien, A., Yoccoz, N.G., Fuglei, E. & **Ims**, R.A. 2021. Climate and density-dependent population dynamics: Lessons from a simple high-Arctic ecosystem. *PNAS* 118, <https://doi.org/10.1073/pnas.2106635118>
295. Stien, A., Tveraa, T., **Ims**, R.A., Stien, J. & Yoccoz, N.G. 2021. Unfounded claims about productivity beyond density for reindeer pastoralism systems. *Pastoralism* 11 <https://doi.org/10.1186/s13570-021-00209-1>
296. Neby, M., Kamenova, S., Devineau, O., **Ims**, R.A., Soininen, E. 2021. Issues of under-representation in quantitative DNA metabarcoding weaken the inference about diet of the tundra vole *Microtus oeconomus*. *PeerJ* 9 <https://doi.org/10.7717/peerj.11936>
297. Palomino-Gonzalez, A., Kovacs, K.M., Lydersen, C., **Ims**, R.A. & Lowther, A.D. 2021. Drones and marine mammals in Svalbard, Norway. *Mar. Mam. Sci.* 37:1212–1229.
298. Eischeid, I., Soininen, E.M., Assmann, J.J., **Ims**, R.A., Madsen, J., Pedersen, Å.Ø., Pirotti, F., Yoccoz, N.G., Ravolainen, V.T. 2021. Disturbance Mapping in Arctic Tundra Improved by a Planning Workflow for Drone Studies: Advancing Tools for Future Ecosystem Monitoring. *Remote Sens.*, 13, 4466. <https://doi.org/10.3390/rs13214466>
299. Stenseth N.C., **Ims** R.A., Sæther B.E., Cadahía L, Herfindal, I., Lee A.M., Whittington J.D. & Yoccoz, N.G. 2022. Sustainable management of populations impacted by harvesting and climate change. *Clim Res* 86:1-7. <https://doi.org/10.3354/cr01688>
300. Hamel S, **Ims** R.A. & Yoccoz, N.G. 2022. Challenges and opportunities when implementing strategic foresight: lessons learned when engaging stakeholders in climate-ecological research. *Clim Res* 86:29-35. <https://doi.org/10.3354/cr01653>
301. Henden J.A., Tveraa T., Stien A., Mellard J.P., Marolla F., **Ims** R.A. & Yoccoz N.G. 2022. Direct and indirect effects of environmental drivers on reindeer reproduction. *Clim Res* 86:179-190. <https://doi.org/10.3354/cr01630>
302. Mellard J.P., Henden J.A., Pedersen Å.Ø., Marolla F., Hamel S., Yoccoz N.G. & **Ims** RA (2022) Food web approach for managing Arctic wildlife populations in an era of rapid environmental change. *Clim Res* 86:163-178. <https://doi.org/10.3354/cr01638>
303. Vindstad, O.P., Jepsen, J.U., Molvik, H. & **Ims**, R.A. 2022. A pioneering pest: the winter moth (*Operophtera brumata*) is expanding its outbreak range into low-arctic shrub tundra. *Arctic Science* (in press)
304. Nicolau, P.G., **Ims**, R.A., Sørbye, S. H & Yoccoz, N.G. 2022. Seasonality, density dependence and spatial synchrony. *PNAS* (in revision)
305. Kleiven, E., Nicolau, P.D., Sørbye, S.H., Aars, J., Yoccoz, N.G. & **Ims**, R.A. 2022 Using camera traps to monitor cyclic vole populations: Remote Sensing in Ecology & Conservation (in revision)