





# The AMBIO Special Issue

Niels Martin Schmidt





### AMBIO Special Issue

#### **Guest editors**

- Niels Martin Schmidt
- Mora Aronsson
- Sara Longan
- Hrefna Jóhannesdóttir
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#### Time line

- Review process on-going
- Parallel to START report
- On-line publication upon acceptance
- Hard copy January 2020





### **AMBIO Special Issue**

- Scientific basis for the START report
- START report is synthesizing
  - Scientific litterature
  - Expert knowledge
  - Traditional knowledge
- The AMBIO Special Issue



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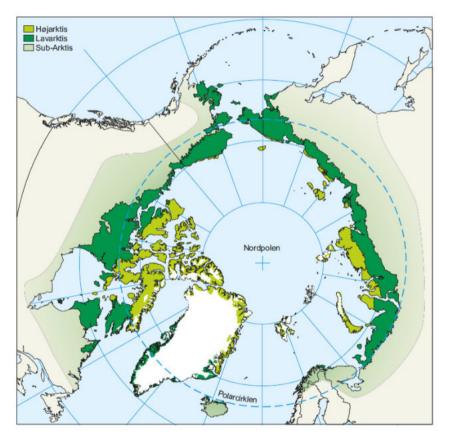
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# Chapter content



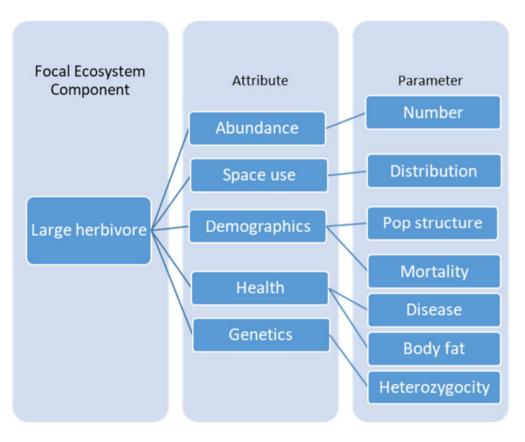
### **Geographical focus**

- Arctic proper
  - Low and high Arctic sites
- Sub-arctic alpine sites





### Focal Ecosystem Components (FECs)



- Conceptual models
- Key species / species groups
- Ecosystem function
- Human well-being
- Red-listed species





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# "Mandatory" chapter content

- Status and trends of Focal Ecosystem Components (FECs) and their attributes
- Linkage to main drivers and stressors of FECs
- Mapping of ongoing monitoring and gap-analysis (data and knowledge)
- Suggested management and/or conservation initiatives (if possible)
- Key findings





No.	Working title	Lead author
1	Introduction	Tom Christensen
2	Drivers of Arctic Vegetation dynamics	Virve Ravolainen
3	Status and trends in terrestrial vegetation based on plot data	Anne D. Bjorkman
4	Invasive Plants	Pawel Wasowicz
5	Status and trends of terrestrial arthropod diversity in the North Atlantic region of the Arctic	Mark Gillespie
6	Circumpolar arthropod monitoring: a review of ongoing activities, opportunities and challenges with a focus on spiders	Mark Gillespie
7	Tundra birds	Paul Smith
8	Ptarmigan complex	Eva Fuglei
9	Top bird predators	Alastair Franke
10	Small mammal population dynamics	Dorothee Ehrich
11	Muskoxen	Christine Cuyler
12	Reindeer/ Caribou	Don Russel
13	Remote sensing	Liza Jenkins
14	Conclusion	TBD





### Data sources

- Monitoring programs
- Expert knowledge
- Government projects
- Research projects
- Traditional Ecological Knowledge
- Community-based data







# Reconnecting the system

• The taxonomic - ecosystem approach paradox

