



The AMBIO Special Issue

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UNIVERSITY
DEPARTMENT OF BIOSCIENCE

THE AMBIO SPECIAL ISSUE

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AMBIO Special Issue

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Time line

- Review process on-going
- Parallel to START report
- On-line publication upon acceptance

- Hard copy January 2020



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AMBIO Special Issue

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



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Chapter content

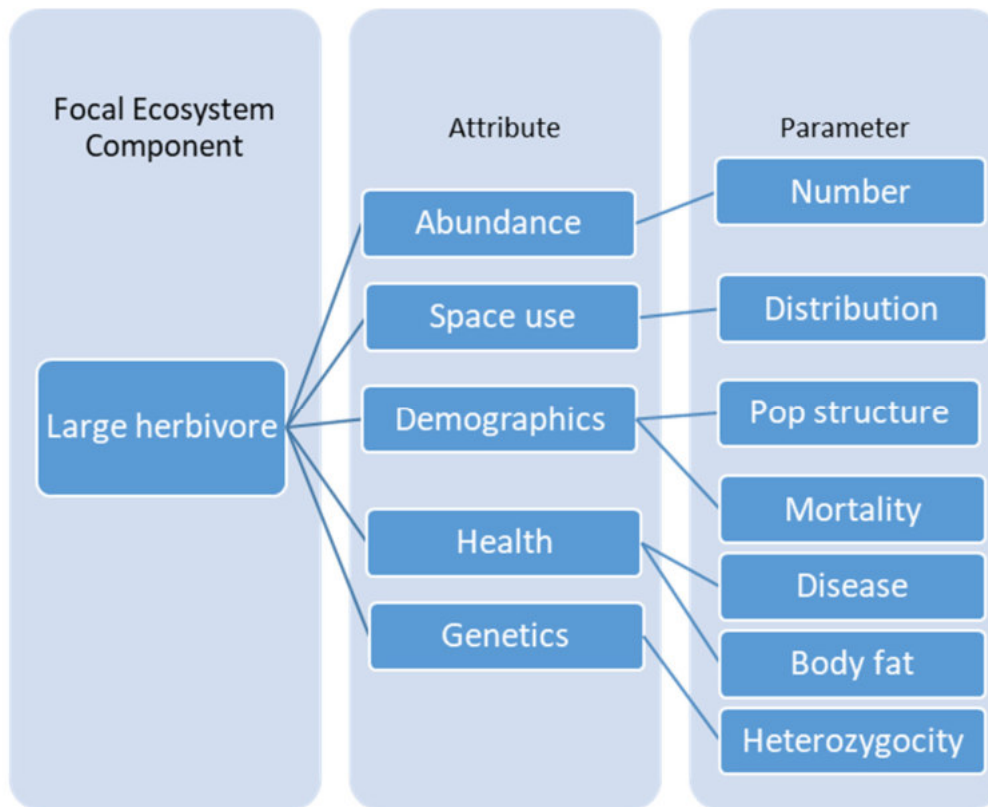


Geographical focus

- 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



“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



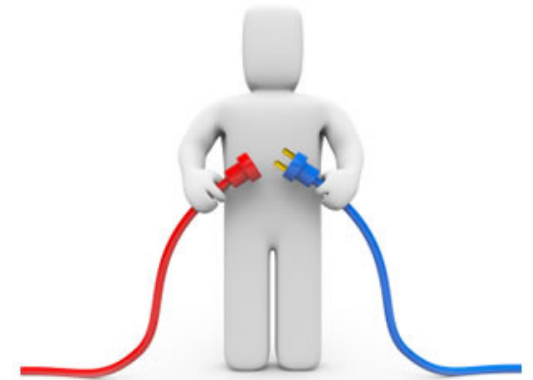
Data sources

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



Reconnecting the system

- The taxonomic - ecosystem approach paradox



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