

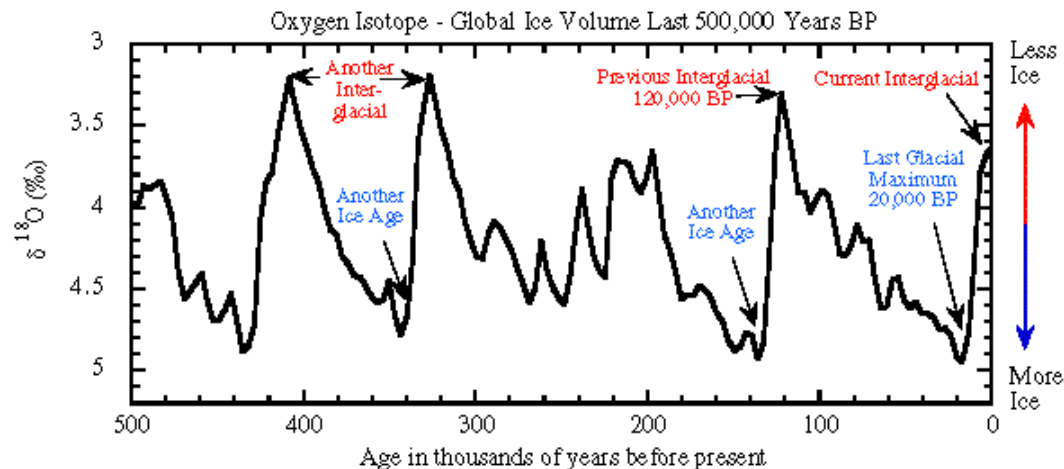


Var det bättre förr?
Några historiska perspektiv på biologisk mångfald
Ove Eriksson
Stockholms universitet

Arter har existerat hundratusentals – miljontals år



Art-pool = alla arter av djur, växter, svampar mm
som ekologiskt har möjlighet att leva i en viss livsmiljö
eller i en viss typ av landskap



htt

dex.html

- Fluktuerande klimat
- Ekosystem formade av stora betande djur

Minireview

Ecological impacts of the late Quaternary megaherbivore extinctions

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ELSEVIER



Dietary flexibility and niche partitioning of large herbivores through
the Pleistocene of Britain

Florent Rivals ^{a, b, c, *}, Adrian M. Lister ^d



ARTICLE

doi:10.1038/nature12921

Fifty thousand years of Arctic vegetation and megafaunal diet

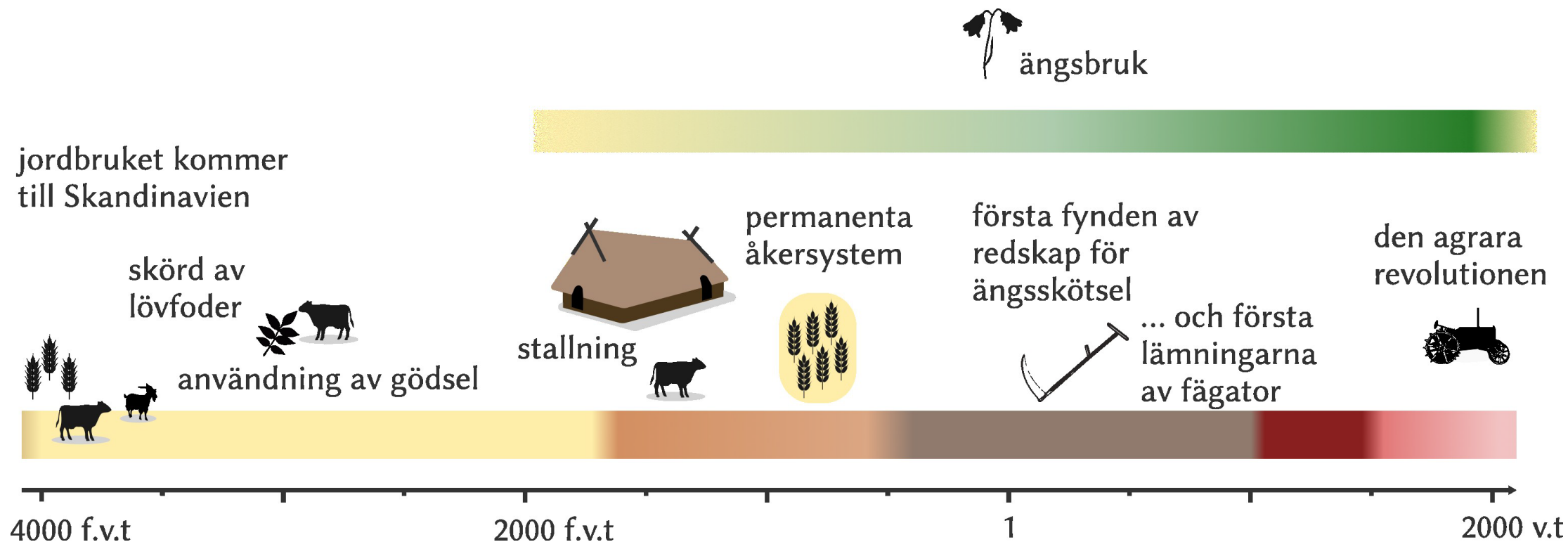
Eske Willerslev^{1*}, John Davison^{2*}, Mari Moora^{2*}, Martin Zobel^{2*}, Eric Coissac^{3*}, Mary E. Edwards^{4*}, Eline D. Lorenzen^{1,5*}, Mette Vestergaard^{1*}, Galina Gussarova^{6,7*}, James Haile^{1,8*}, Joseph Craine⁹, Ludovic Gielly³, Sanne Boessenkool^{6†}, Laura S. Epp^{6†}, Peter B. Pearman¹⁰, Rachid Cheddadi¹¹, David Murray¹², Kari Anne Bräthen¹³, Nigel Yoccoz¹³, Heather Binney⁴, Corinne Cruaud¹⁴, Patrick Wincker¹⁴, Tomasz Goslar^{15,16}, Inger Greve Alsos¹⁷, Eva Bellemain^{6†}, Anne Krag Brysting¹⁸, Reidar Elven⁶, Jørn Henrik Sonstebø⁶, Julian Murton¹⁹, Andrei Sher^{20†}, Morten Rasmussen¹, Regin Rønn²¹, Tobias Mourier¹, Alan Cooper²², Jeremy Austin²², Per Möller²³, Duane Froese²⁴, Grant Zazula²⁵, François Pompanon³, Delphine Rioux³, Vincent Niderkorn²⁶, Alexei Tikhonov²⁷, Grigoriy Savvinov²⁸, Richard G. Roberts²⁹, Ross D. E. MacPhee³⁰, M. Thomas P. Gilbert¹, Kurt H. Kjær¹, Ludovic Orlando¹, Christian Brochmann^{6*} & Pierre Taberlet^{3*}

A photograph of a forest landscape. In the foreground, there is a grassy field with some small rocks and patches of low-lying vegetation. Several trees are scattered across the field, including a prominent one on the right with a thick trunk and a large, spreading canopy. The background is filled with a dense forest of tall trees with green foliage. The sky is visible through the canopy, appearing overcast.

Livsmiljöerna täckte stora områden

Livsmiljöerna var dynamiska

Mosaikartad vegetation:
öppen, halvöppen, sluten



Stor artrikedom i halvöppna miljöer, med gamla, solbelysta träd



Foto: Johan Ehrlén



Foto: Katarina Ehrlén

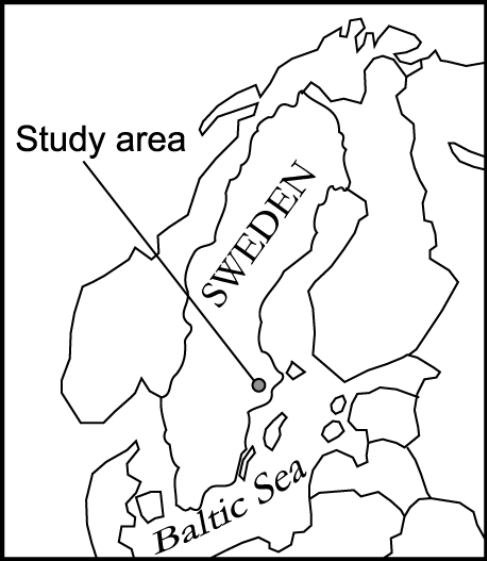
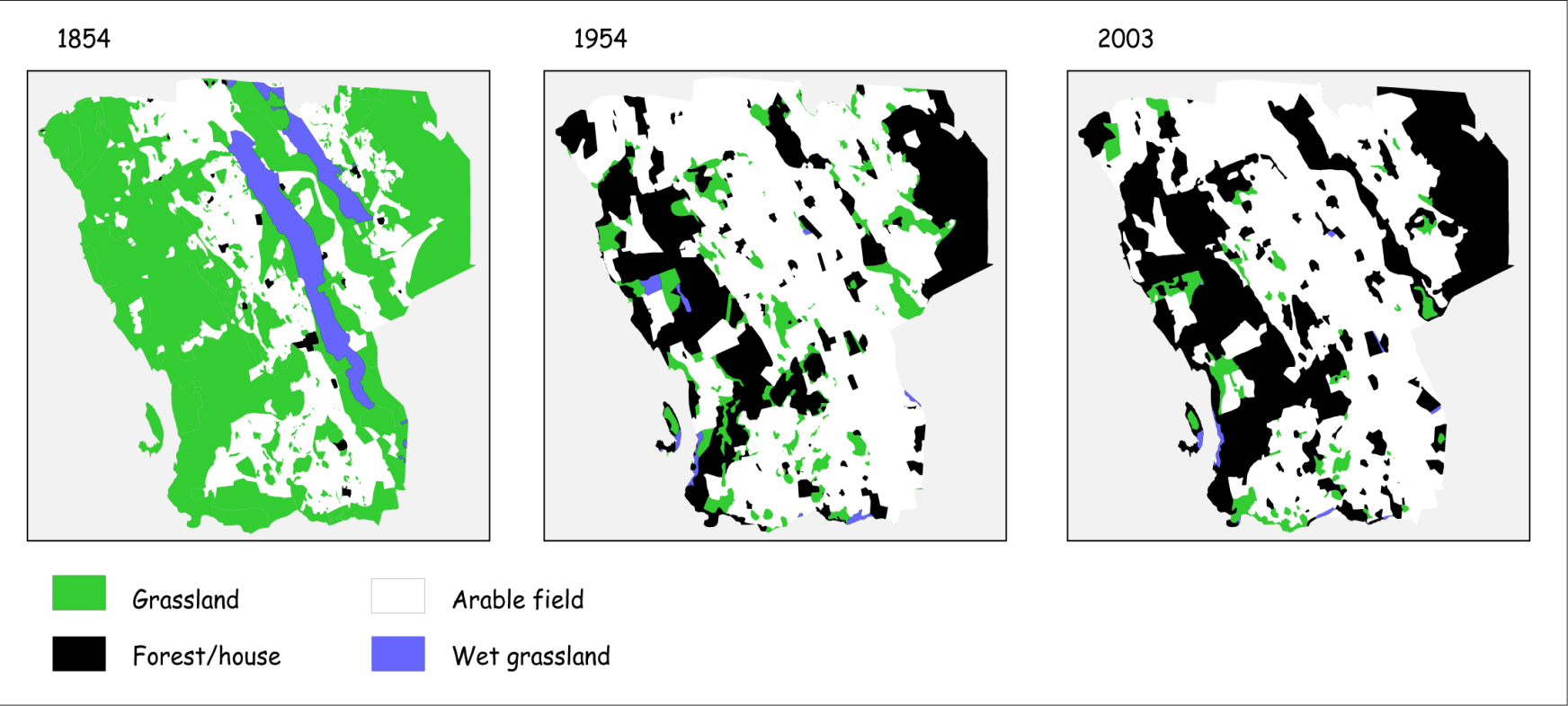


Foto: Bo Lundgren

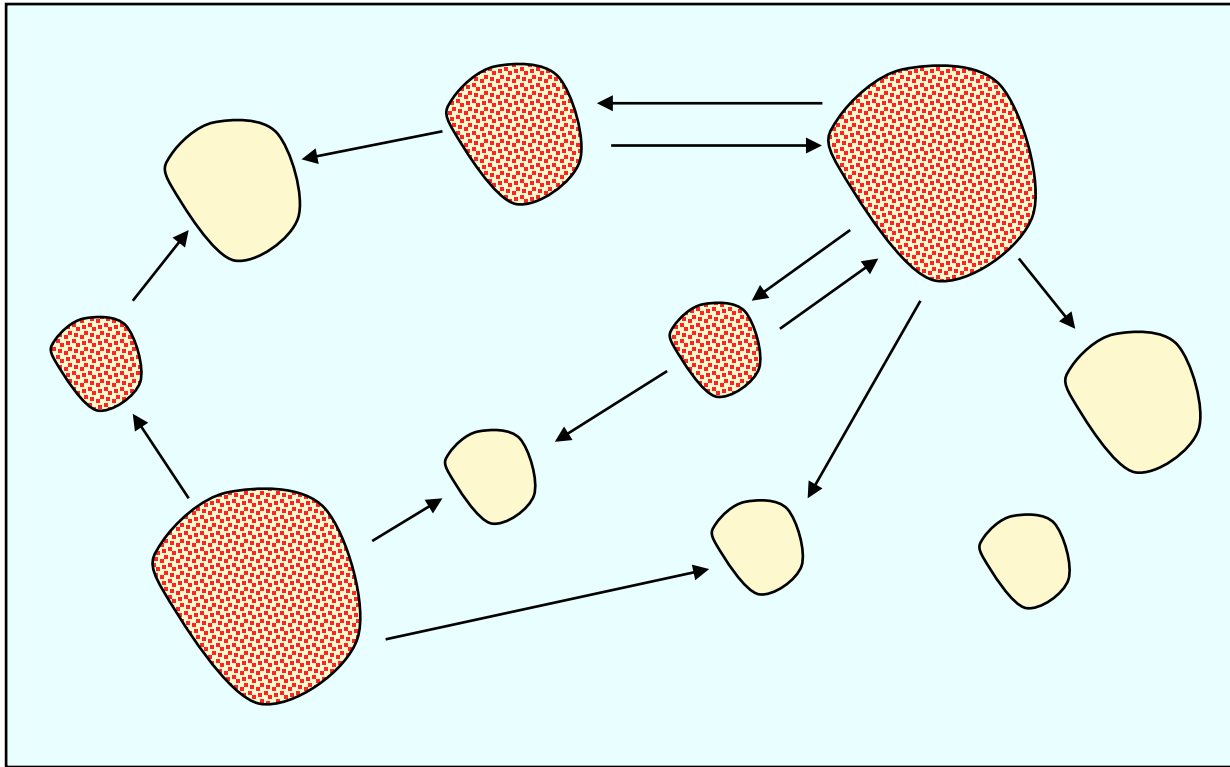
Nutidens megaherbivorer



Landskapets fragmentering - Selaön

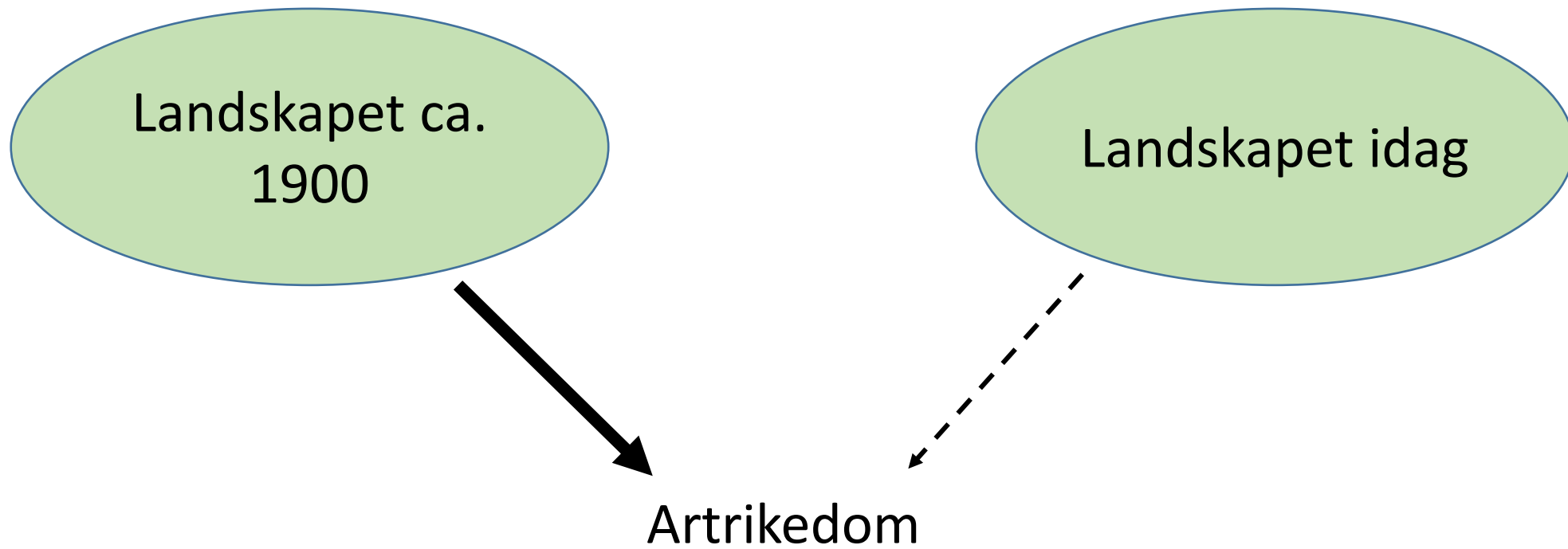


Karta: Sara AO Cousins



Artrikedom i fragmenterade miljöer:

- Area
- Isolering



Lindborg R & Eriksson O. 2004. Ecology 85: 1840-1845.

- Dagens artrikedom kan vara ”överskattad” – en ”utdöendeskuld”
- Stor potential för restaurering
- Arean av livsmiljöerna måste ökas
- Isoleringen av livsmiljöerna måste minska