

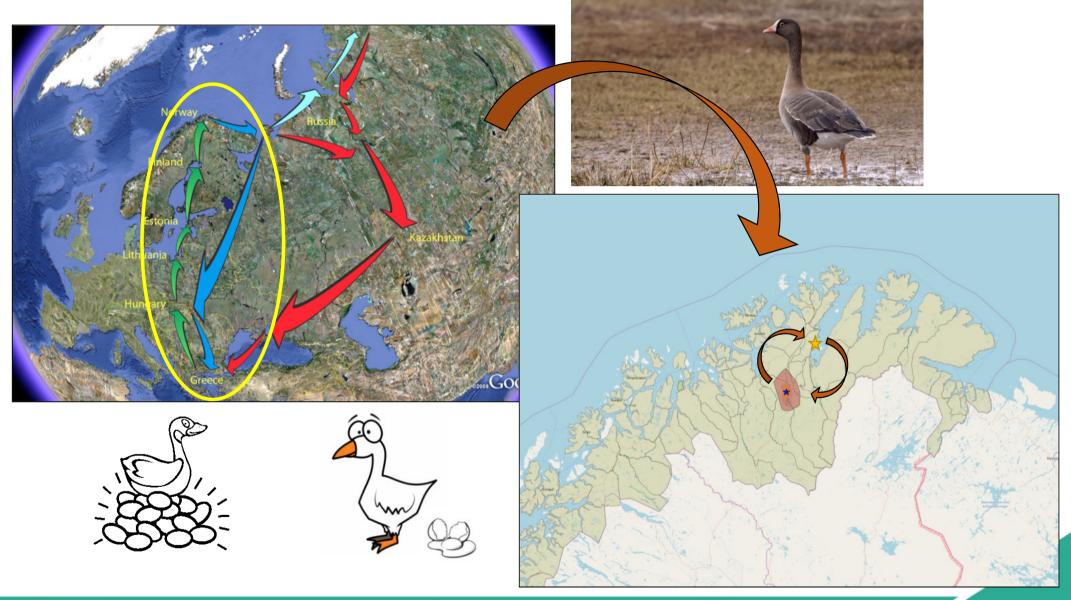
Opposite predation-mediated effects of food web dynamics on an endangered arctic-nesting goose species: implications for management

Filippo Marolla | Tomas Aarvak | Ingar J. Øien | Jarad P. Mellard John-André Henden | Sandra Hamel | Audun Stien Torkild Tveraa | Nigel G. Yoccoz | Rolf A. Ims











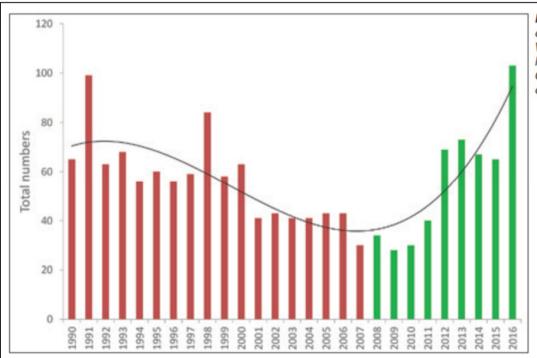


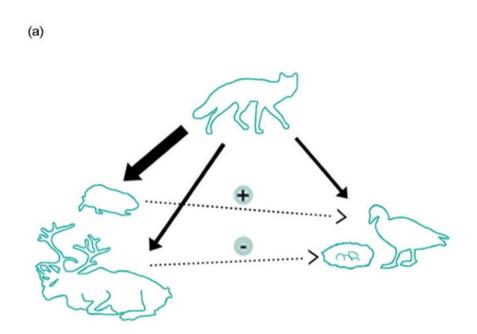
Figure 2. Total number of individuals of Lesser White-fronted Geese identified at the Valdak Marshes, Porsanger Fjord, Finnmark, Norway in the years 1990-2016.

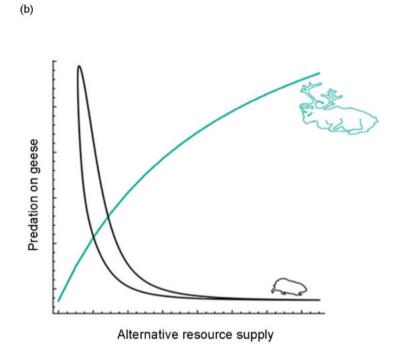
Green bars show years with active Red Fox culling programme in the core breeding area.

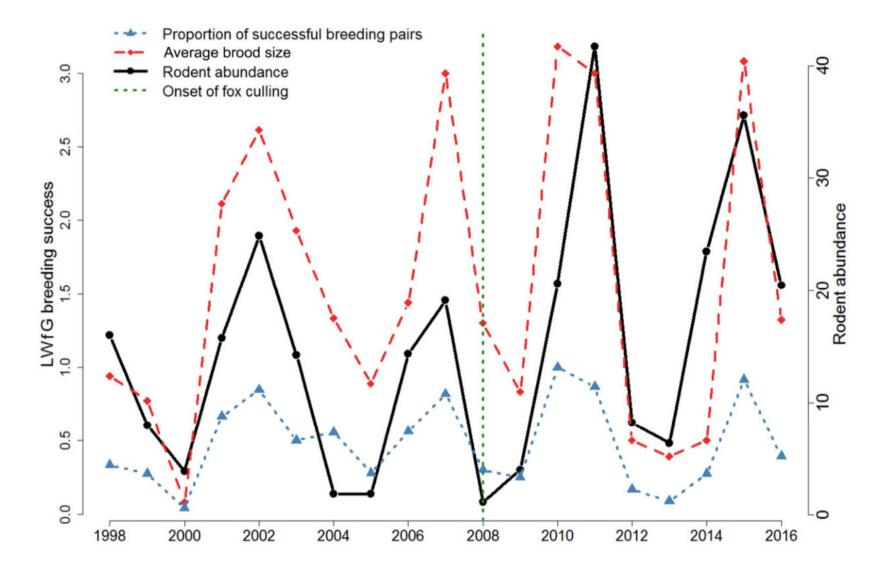
Vougioukalou et al. 2017

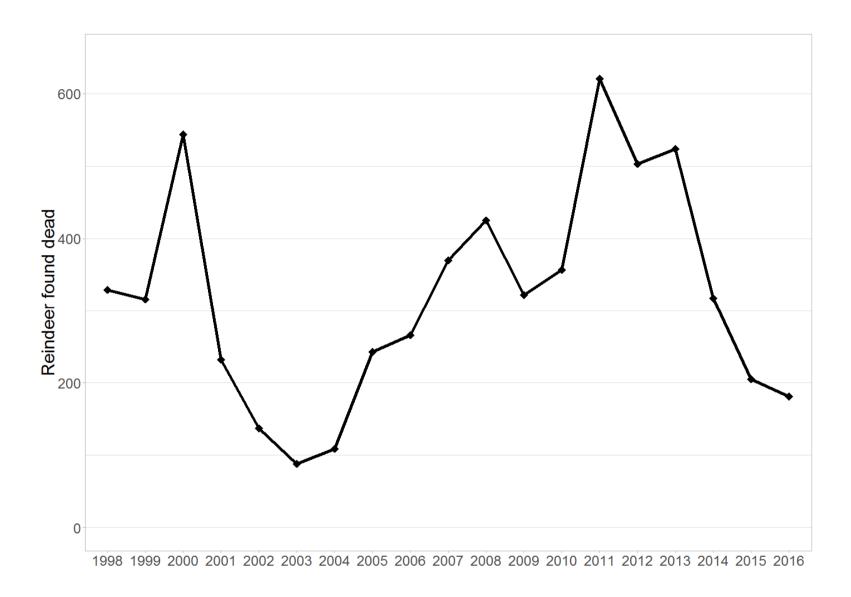


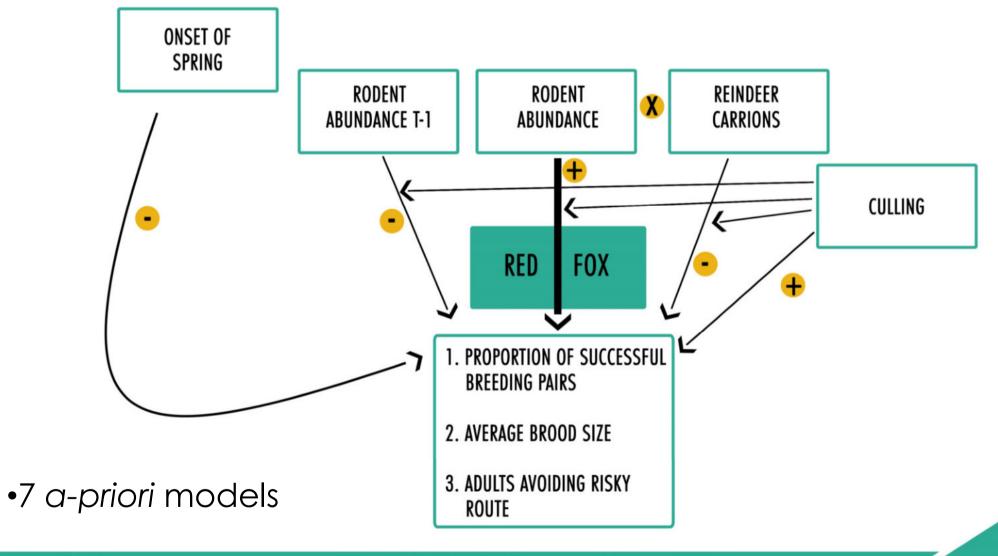
Potential drivers of predation pressure

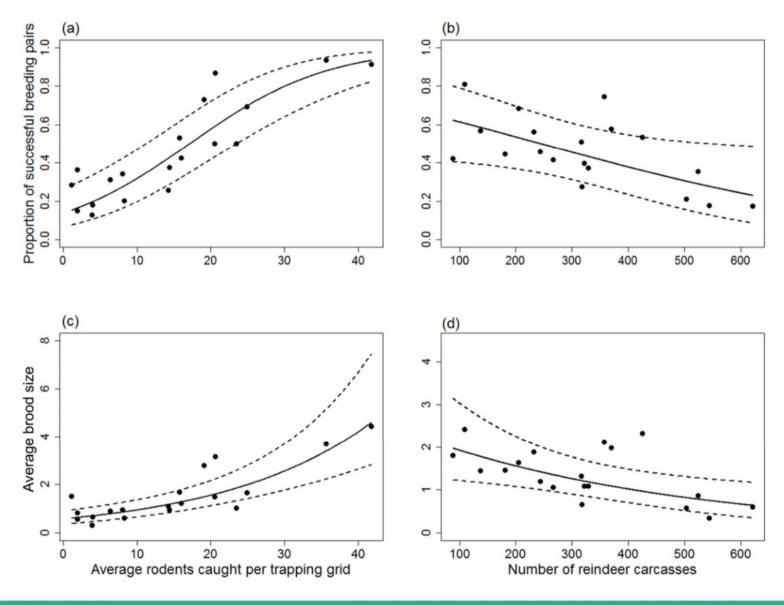




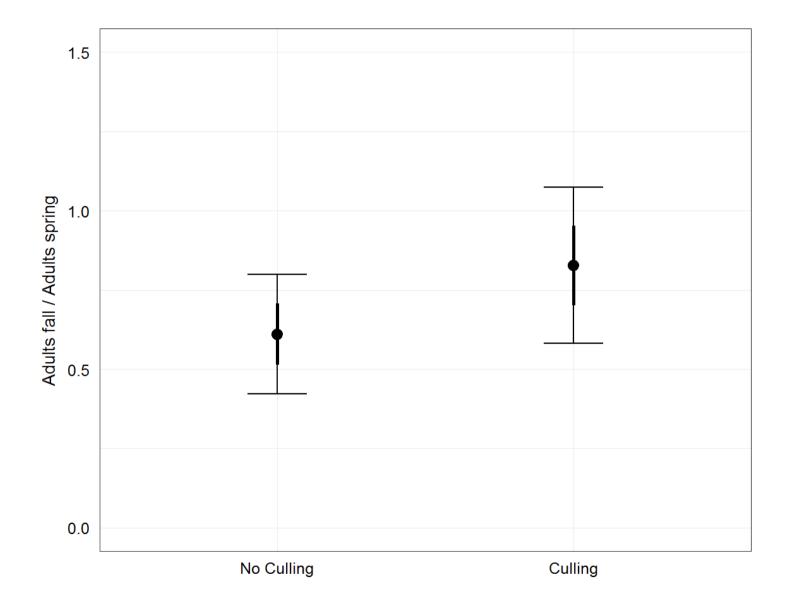








NO effect of spring, rodents lagged and culling



Main conclusions:

- Rodents are important
- •Reindeer carcasses can be important
- •No evidence for effect of culling on breeding success or adult birds avoiding the risky migration, despite a positive sign
- •Why did the population decline? Why did it increase? Related to recruitment?
- •Maybe culling is acting in a different way than expected?
- •Population dynamics can be the result of complex biotic and abiotic interactions
- •Therefore, it is unsure to what extent management contributes to the recovery of a population if a proper **scientific assessment** that takes into account all the potential **confounding factors** is lacking (Angerbjorn et al. 2013)

Thanks to Tomas Aarvak, Ingar Øien, and the whole SUSTAIN Tromsø group.



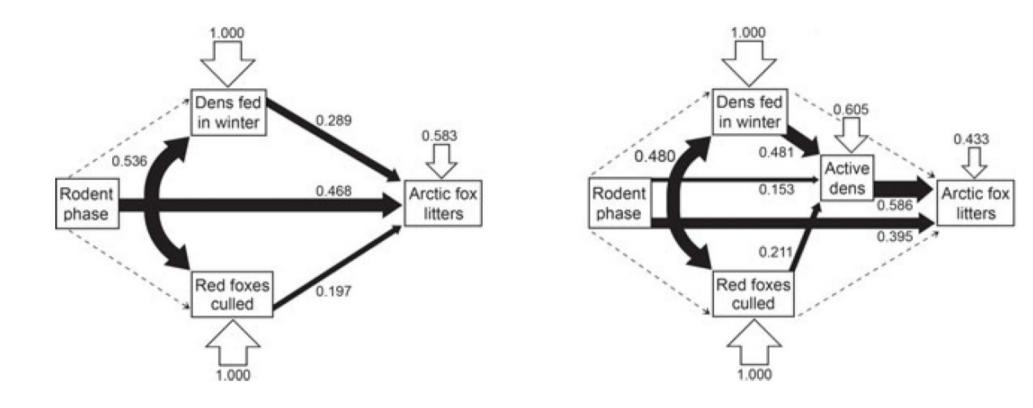


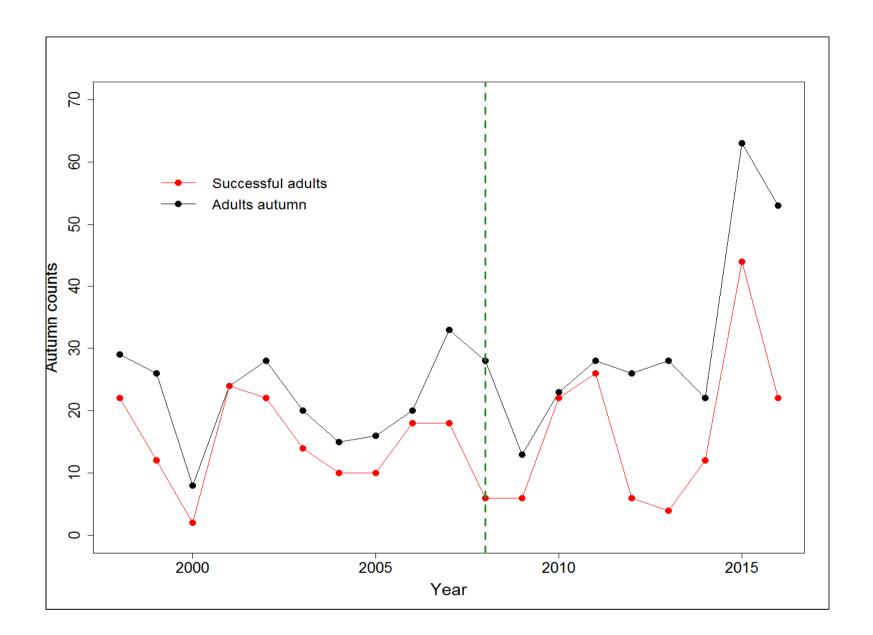


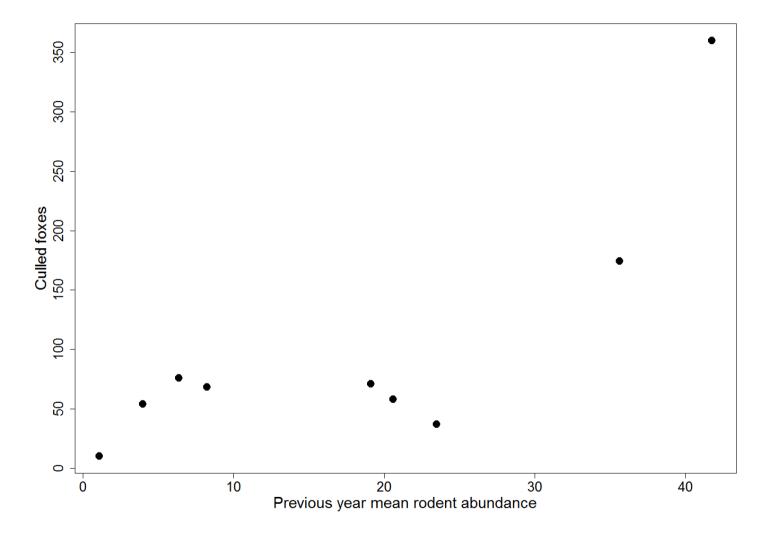


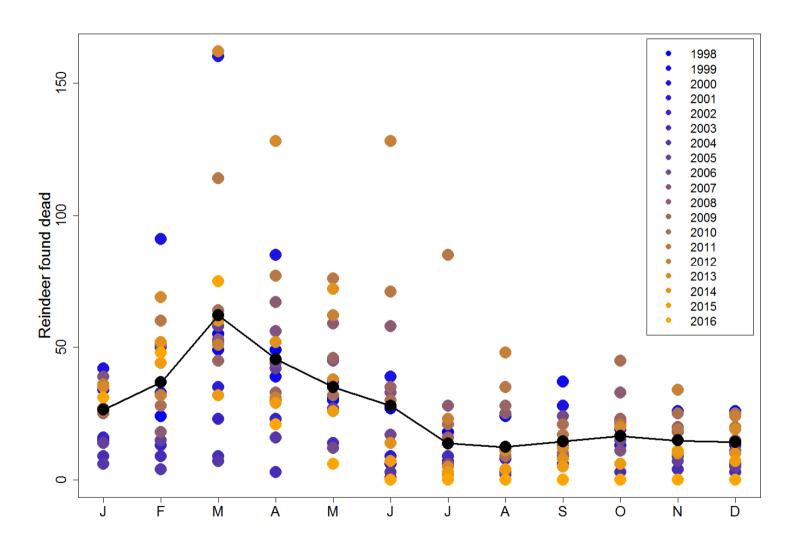


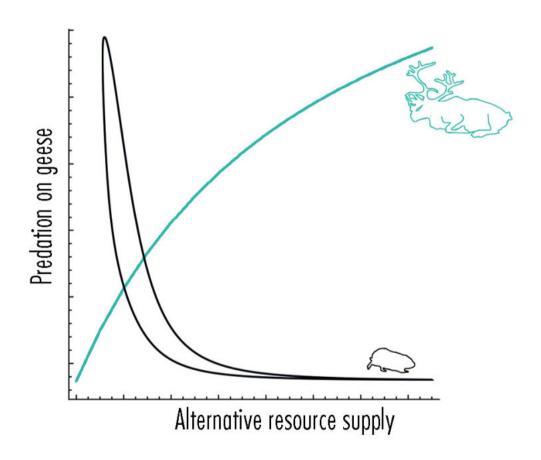














The need for evidence-based conservation

William J. Sutherland¹, Andrew S. Pullin², Paul M. Dolman³ and Teri M. Knight⁴

Diversity

Using Conservation Evidence to Guide Management

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Trends in Ecology & Evolution

Review

Is Reintroduction Biology an Effective Applied Science?

Gemma Taylor,^{1,2,*} Stefano Canessa,¹ Rohan H. Clarke,³ Dean Ingwersen,⁴ Doug P. Armstrong,⁵ Philip J. Seddon,⁶ and John G. Ewen¹

Do conservation managers use <u>scientific evidence</u> to support their decision-making?

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Received 14 June 2003; received in revised form 19 November 2003; accepted 20 November 2003

- Cause of the population decline is unknown
- No replicates and controls in the management design