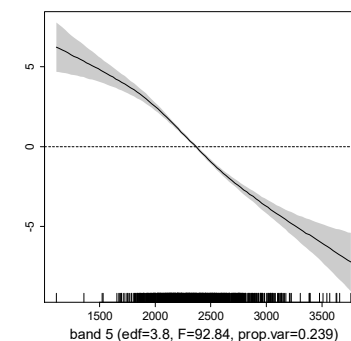
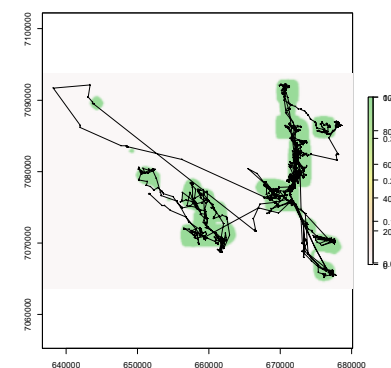
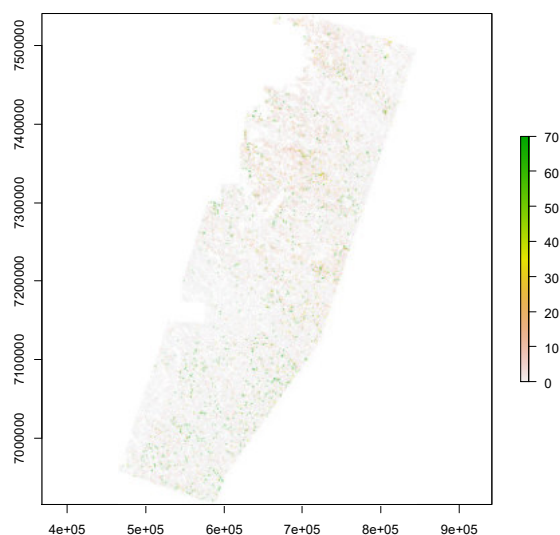


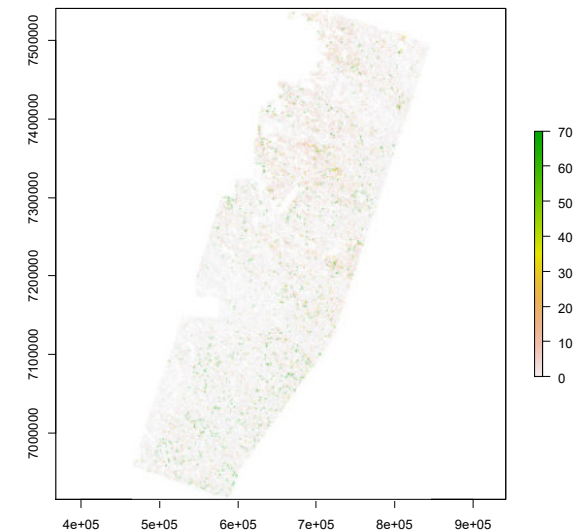
Model evaluation by specialists – using Reindeer Movements for map quality assessment

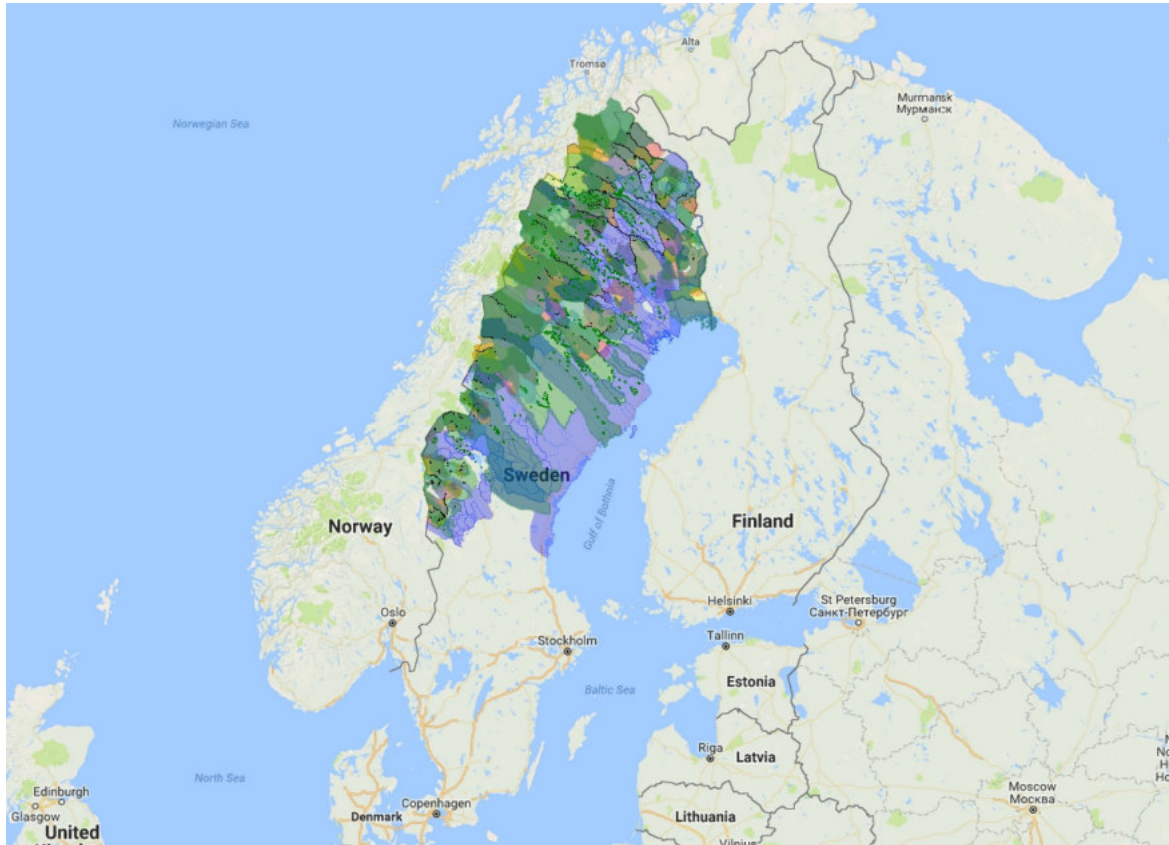
Sven Adler, Henrik Hedenås, Per Sandström; Alessia Uboni



Maps are usefull tools for:

- understanding and analysing landscape patterns
- using as predictors / auxiliary data for model building
- within decision making
- for conflict management between different groups





55% of Sweden's area is used for reindeer herding

Forest industry has an outstanding importance for local and national economy



During winter time, ground lichen are the most important food for reindeer in Sweden

In Sweden, the area of boreal forests with abundant ground lichen cover has declined with about 70% over the whole reindeer husbandry area during the last 60-years

→ Map for ground lichens



tree height

slope

vegetation cover

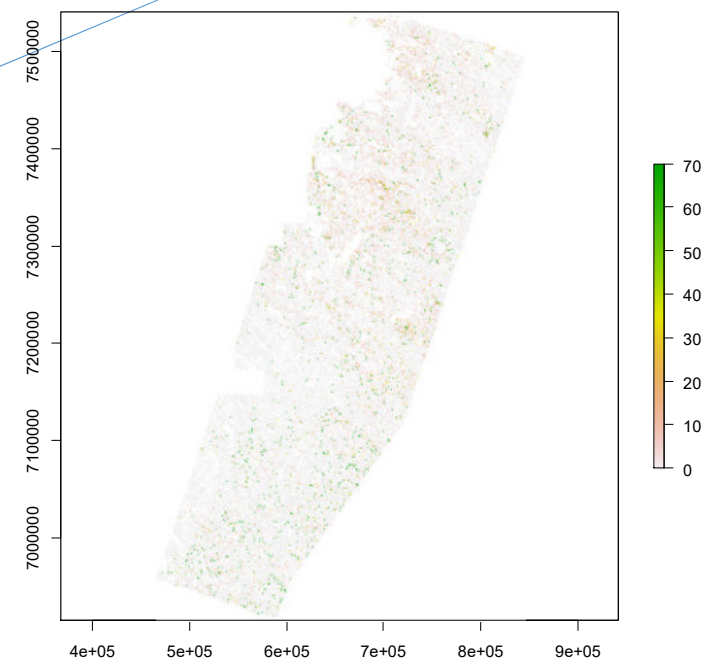
wetness index



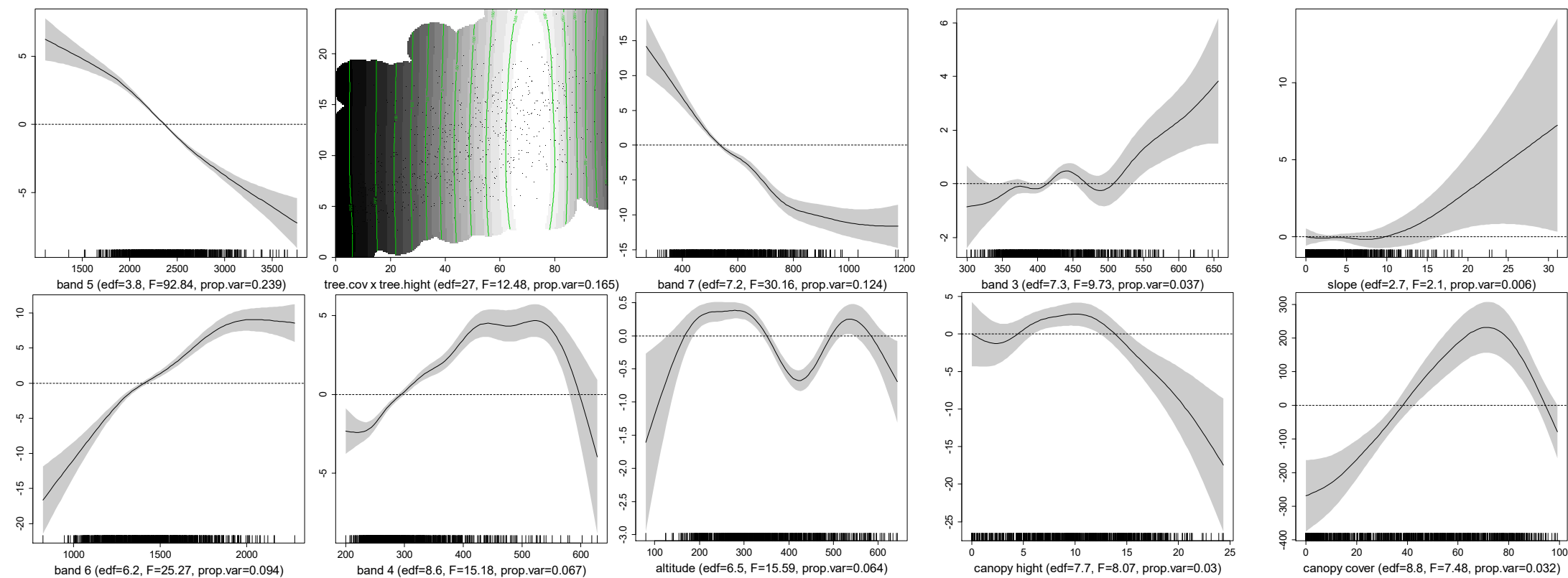
Field data: National
Forest Inventory (NFI)

Generalised Additive
Mixed Modell

Coverage of reindeer lichen



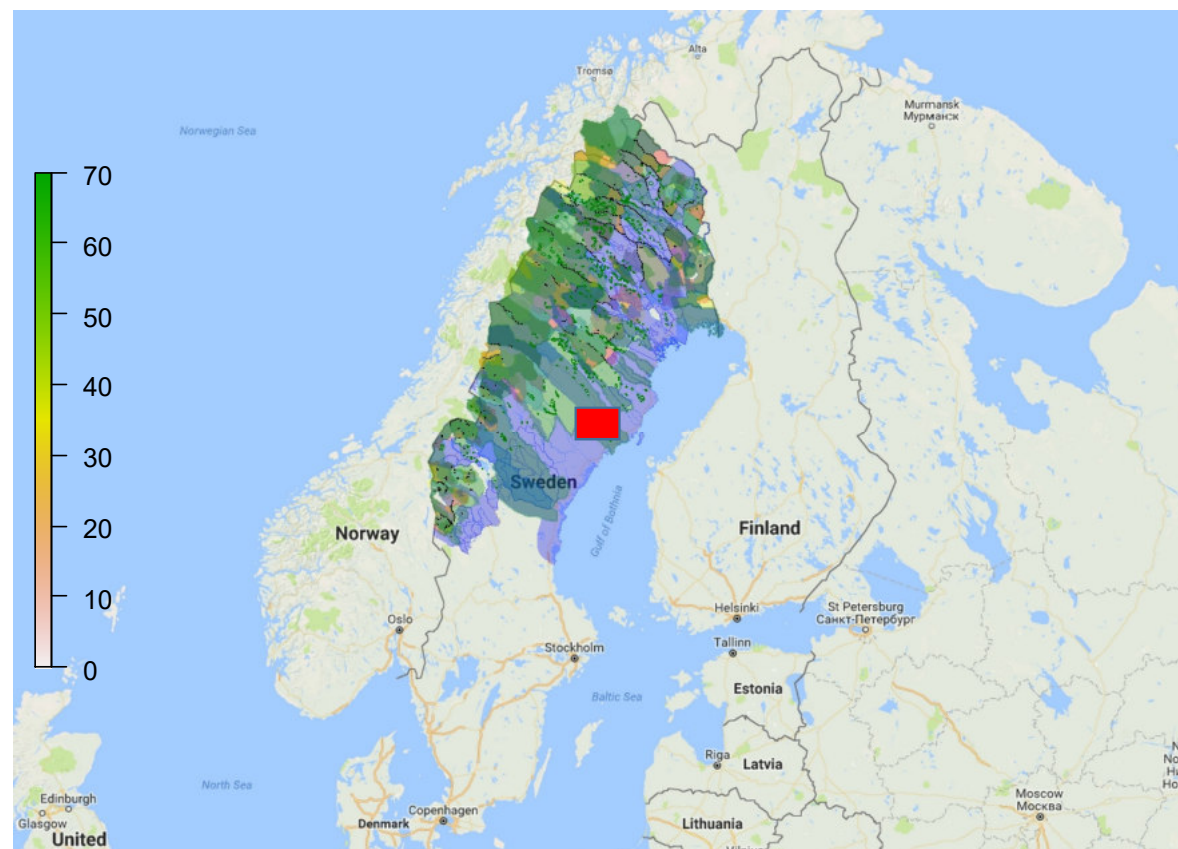
Reindeer lichen model



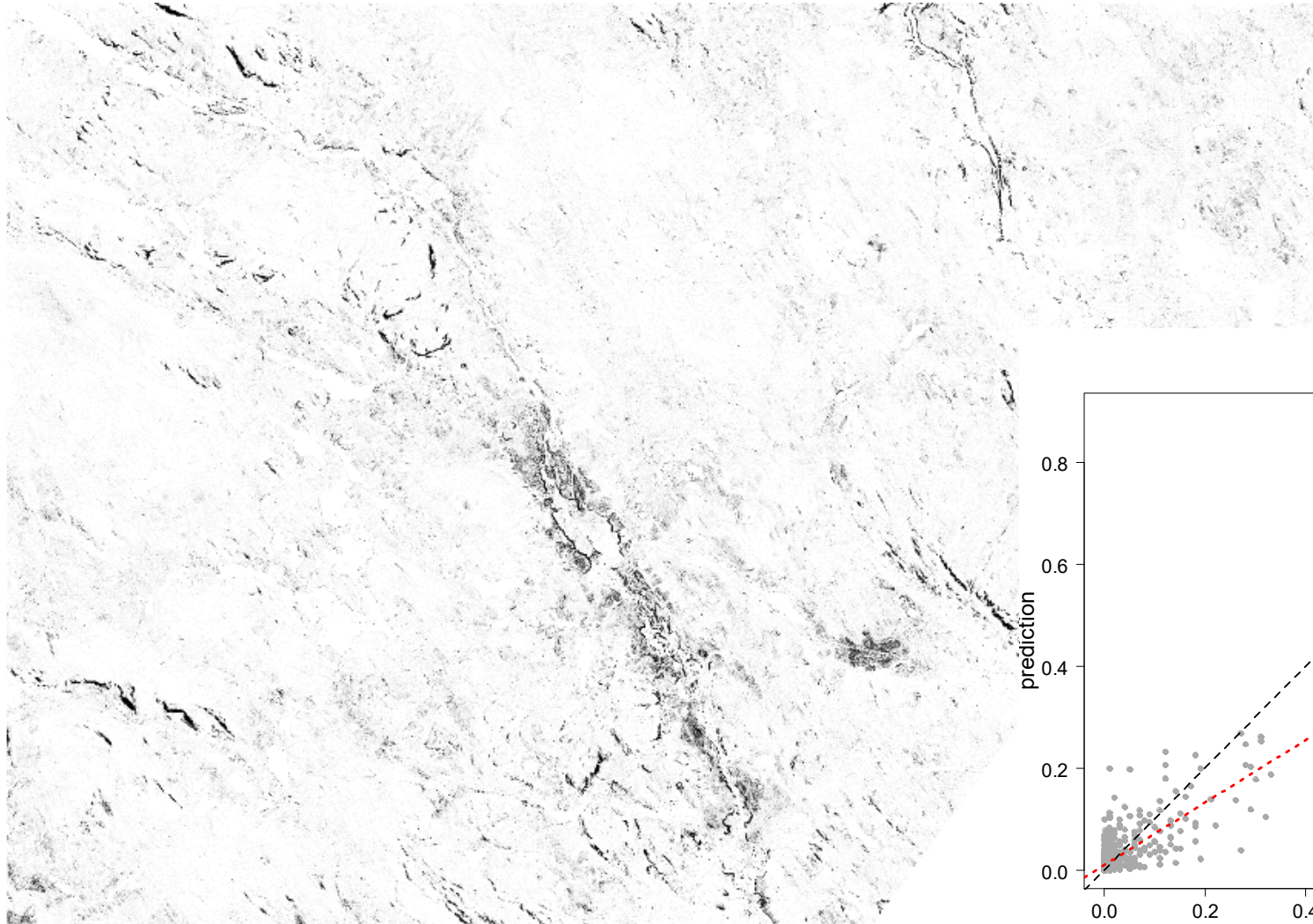
n= 828

Deviance explained = **66%**

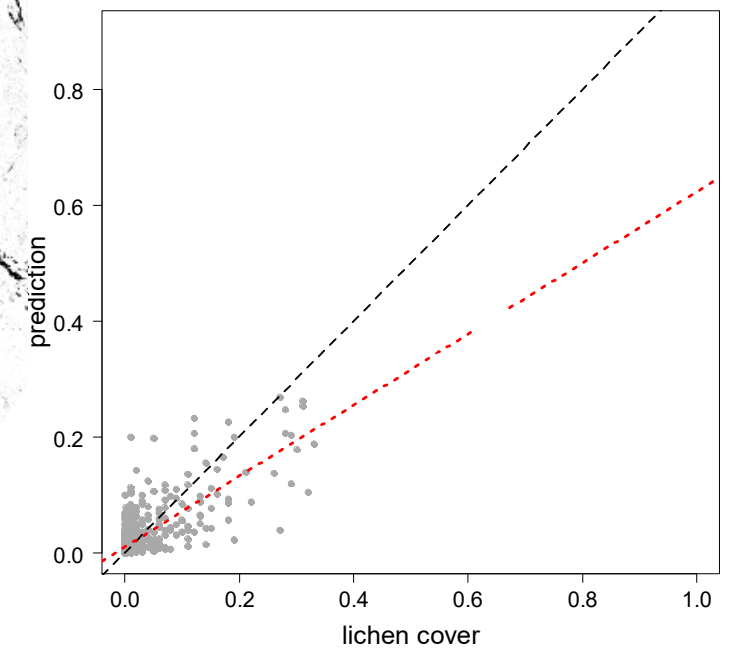
GVC score= 0.036







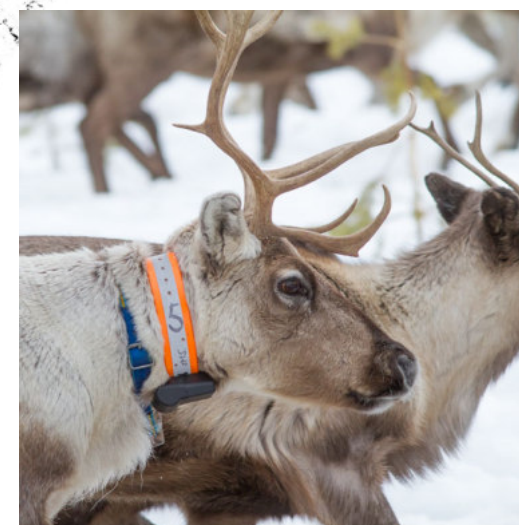
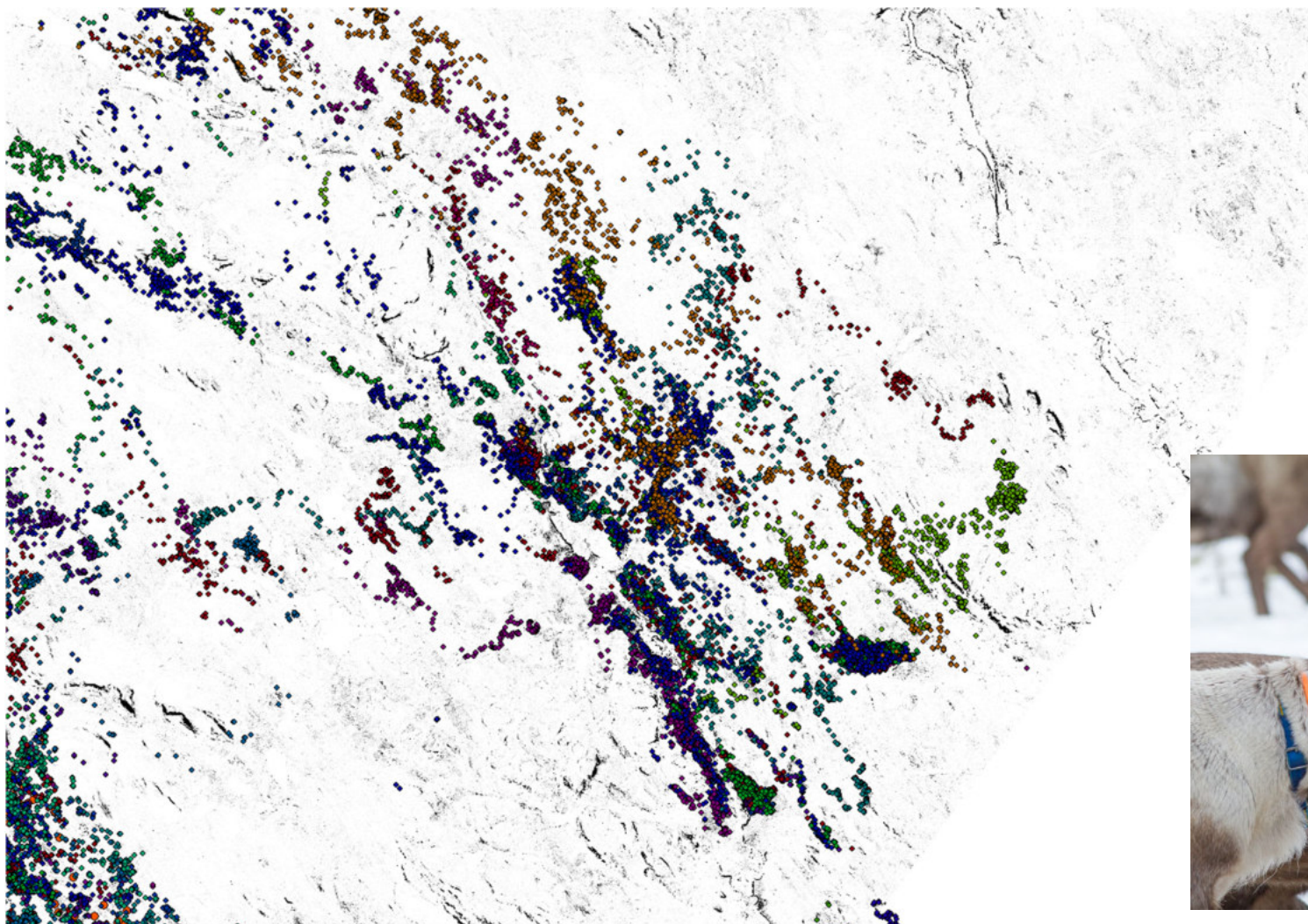
But....



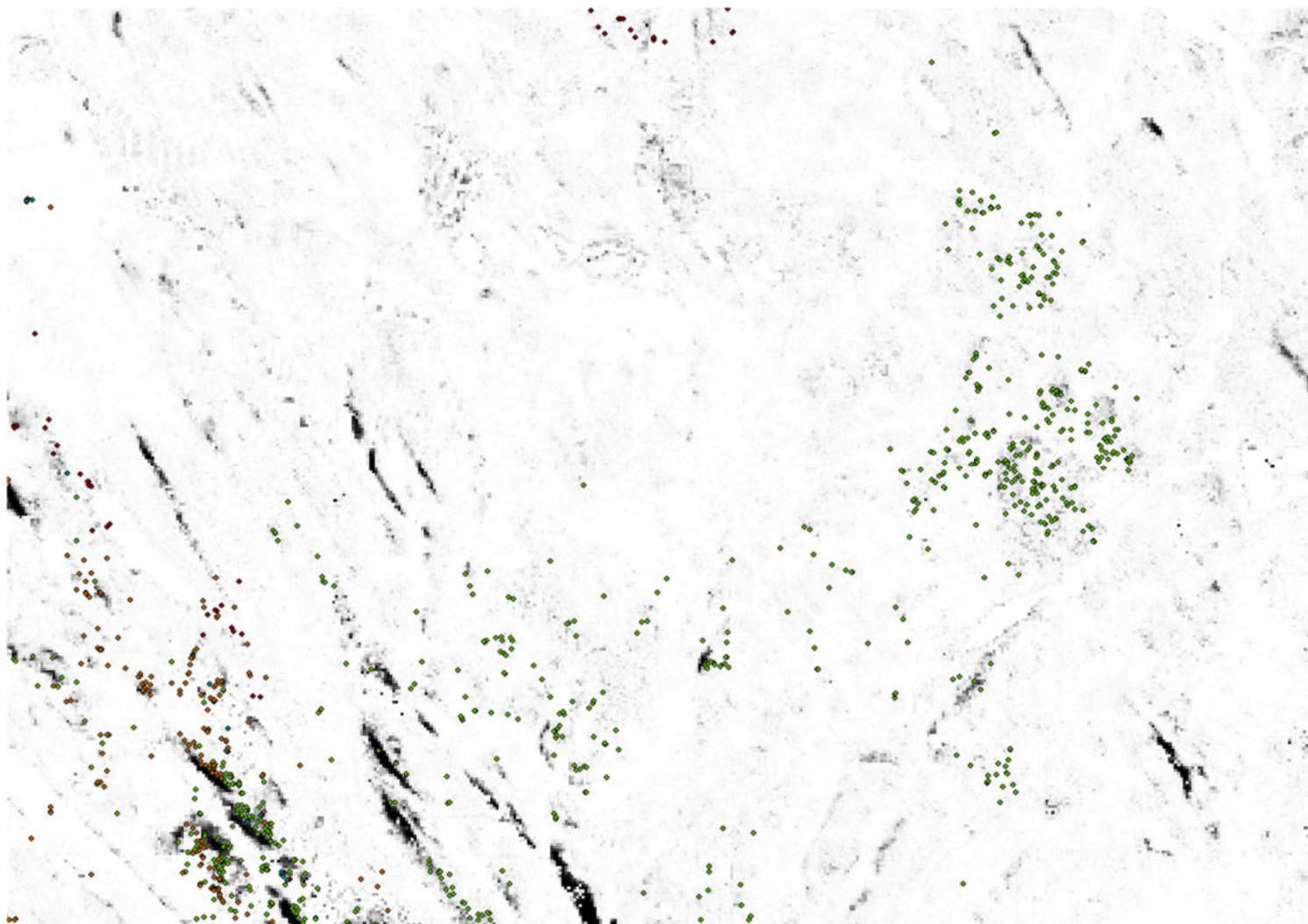


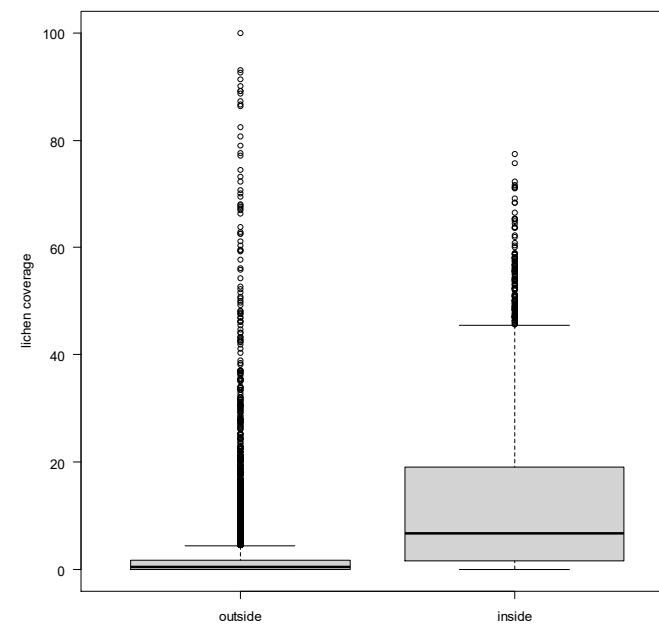
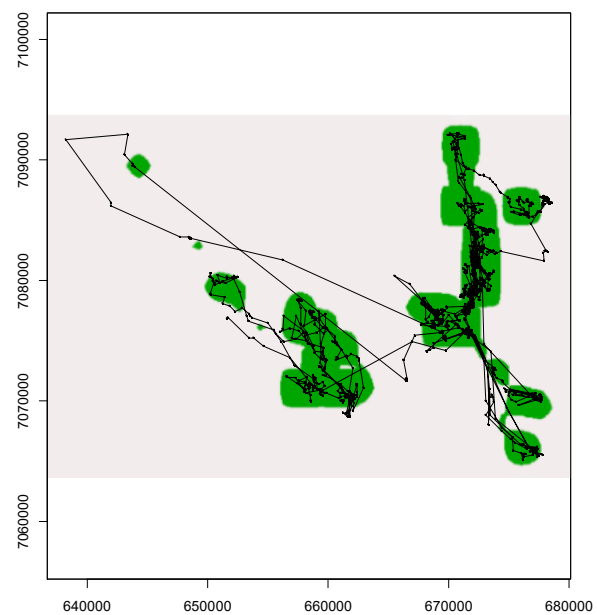
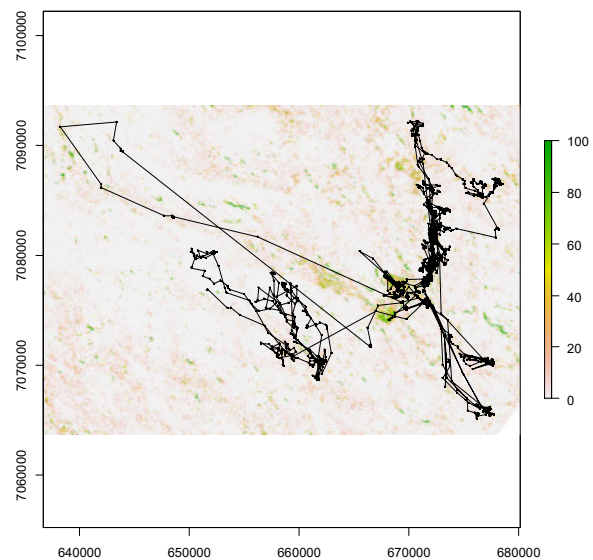
How usfull is this map?





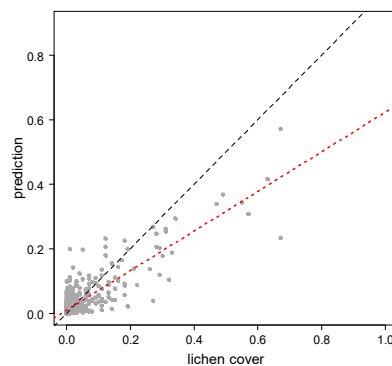






Model evaluation

by the statistics:



by specialist:

