

1

## Vegetation change

Long-term monitoring data for species and cover change



RQ1

Model cover change over time

RQ2

Model species richness over time

2

## Thermophilisation analysis

Download species occurrence data from GBIF

+

Extract climate data from CHELSA



Thermal niche optimum for every species



Community temperature index weighted by species cover (CTI)



RQ3

Model how CTI changed over time

3

## Winner/loser analysis

Cover change for each species over 20 years

+

Species thermal niche



RQ4

Model species change and thermal niche together