

Hindcasting tree species range shifts across Europe over the last 12,000 years to compare the performance of different models

LATE PLEISTOCENE - HOLOCENE



CHAPTER 2

CHAPTER 3



Exploring the potential of inverse calibration to improve the realism of process-explicit models

20TH CENTURY

Investigating the feasibility of using an evolutionary algorithm to calibrate complex models



CHAPTER 1

CHAPTER 4



Quantifying all model-related uncertainties of future species range shift projections in Europe

21ST CENTURY