

IGNASI BARTOMEUS

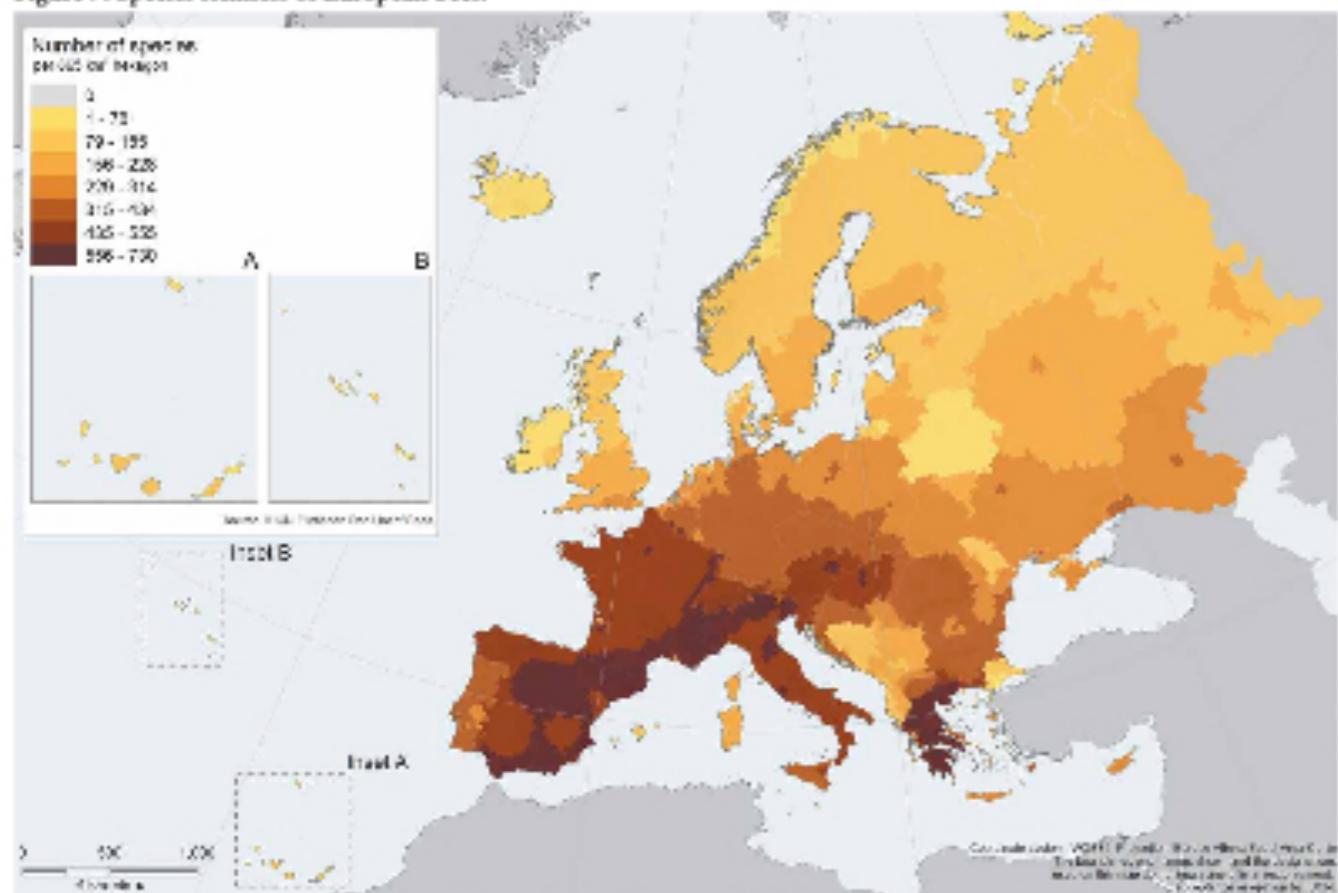
SAFEGUARDING EUROPEAN POLLINATORS: TRENDS, IMPACTS AND CONSERVATION

WE CAN'T PROTECT WHAT WE
DON'T KNOW

EU: 2138 Bee species

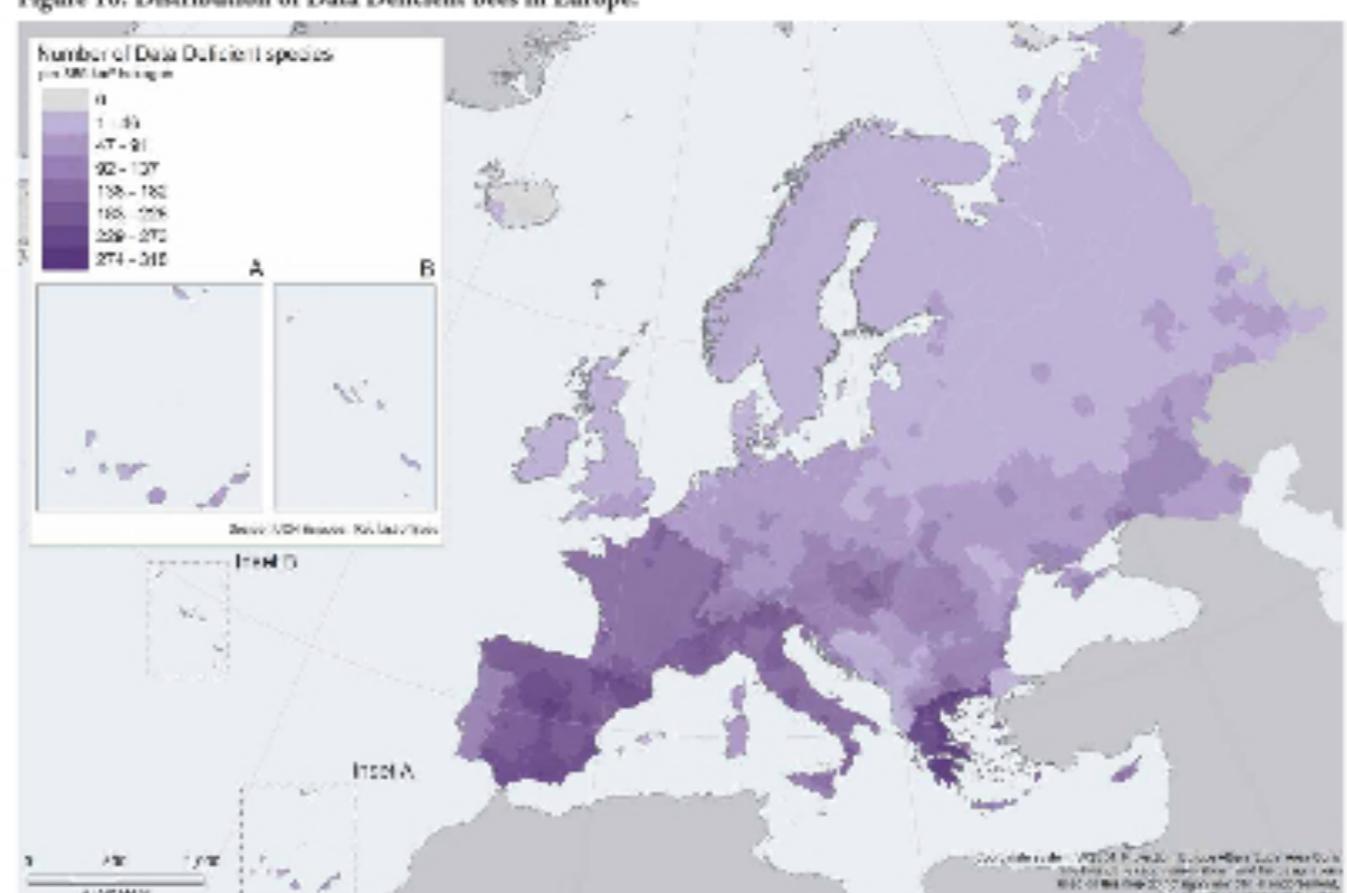
IUCN 2014 Bee Red List Assessment

Figure 7. Species richness of European bees.



Species richness

Figure 10. Distribution of Data Deficient bees in Europe.



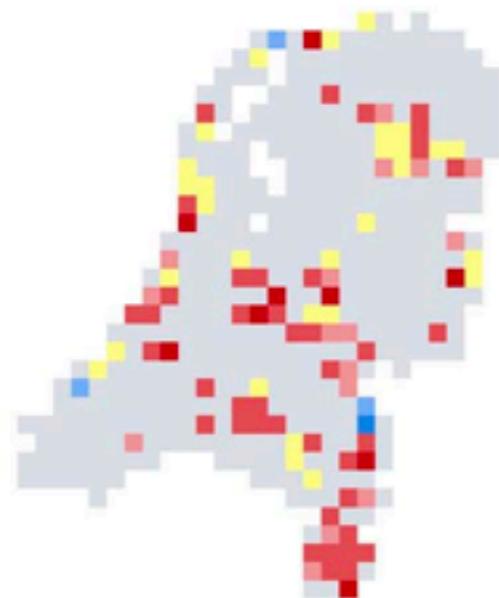
Data Deficient Species

> 50% of species are data deficient

Britain bees



Netherlands bees

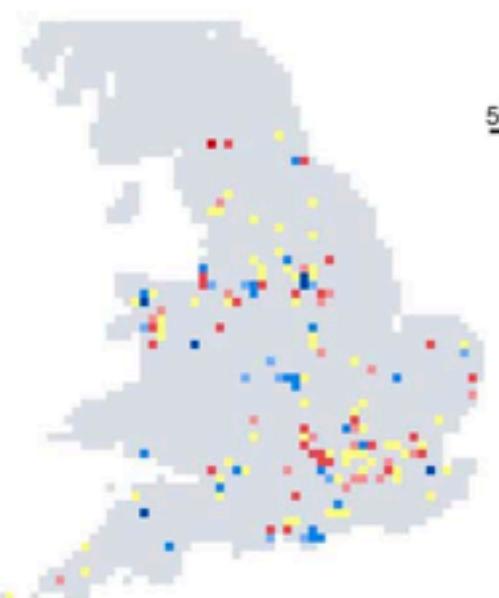


Key:

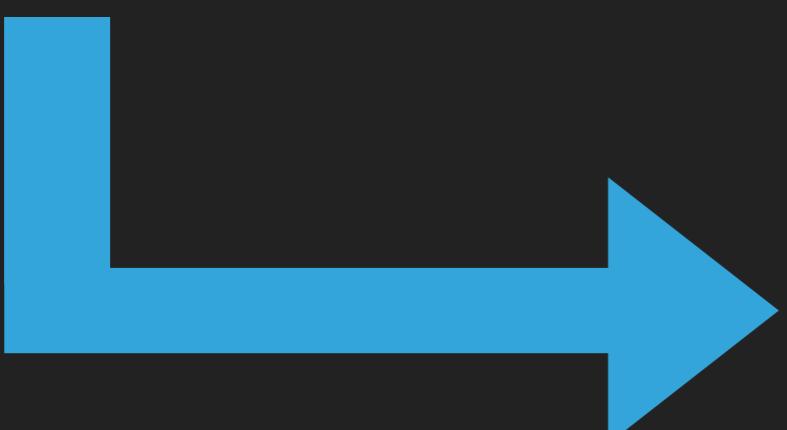
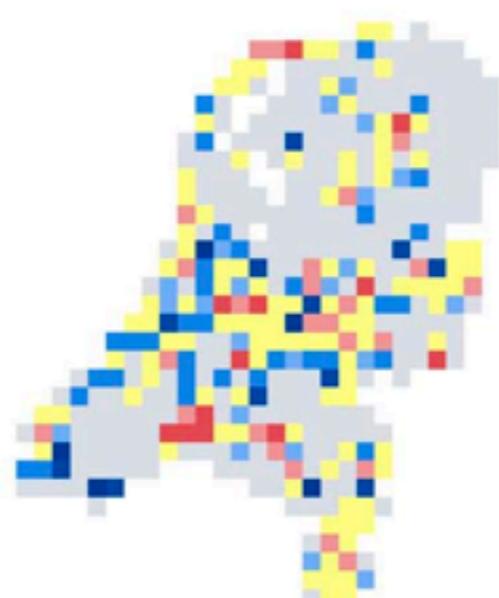
Species richness
change

- [Yellow] No change
- [Dark Red] >60 % Decrease
- [Medium Red] 60 – 40% Decrease
- [Light Red] 40 – 20% Decrease
- [Light Blue] <20 % Decrease
- [Dark Blue] <20 % Increase
- [Medium Blue] 20 – 40 % Increase
- [Dark Blue] 40 – 60 % Increase
- [Very Dark Blue] >60 % Increase

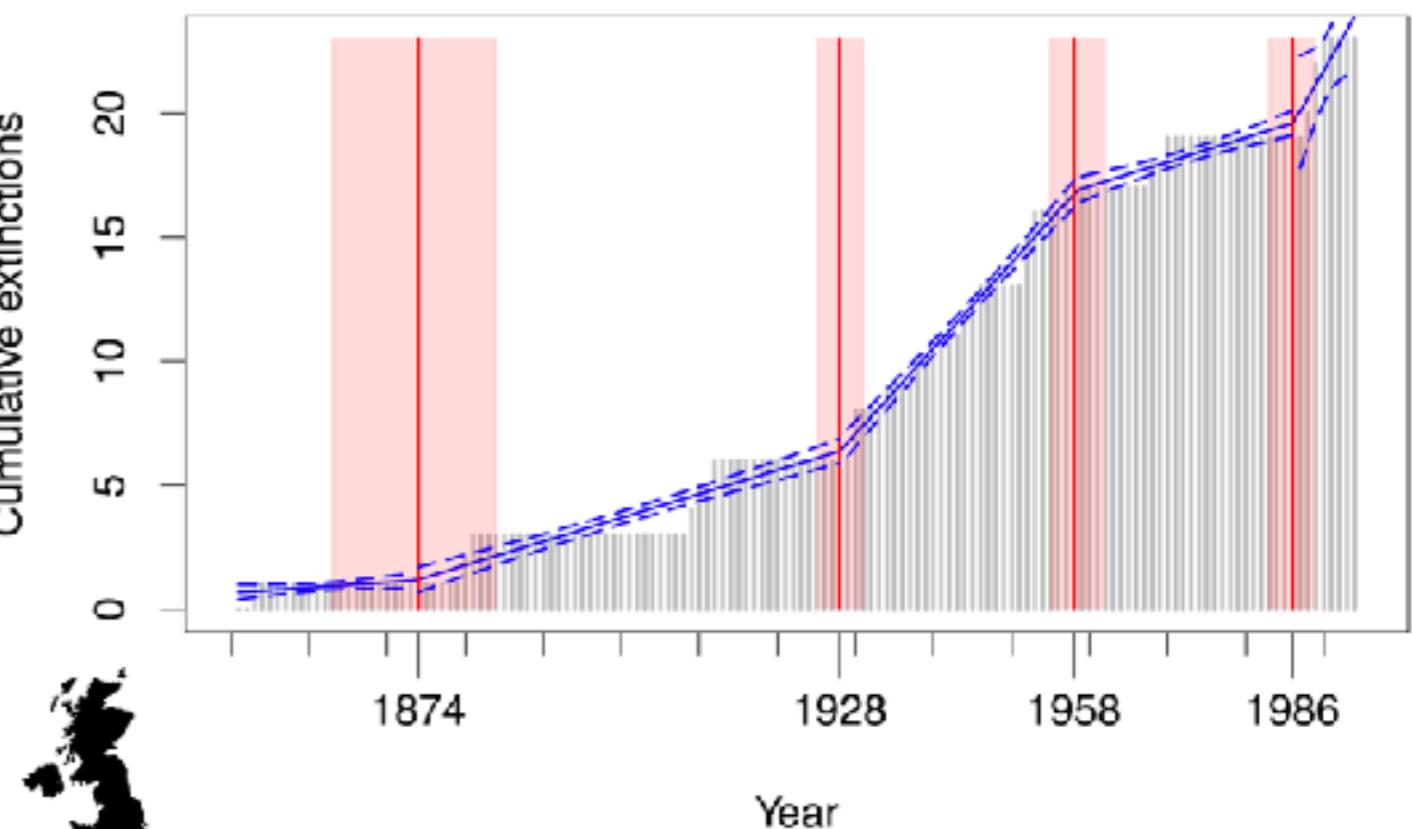
Britain syrphids



Netherlands syrphids



Cumulative extinctions

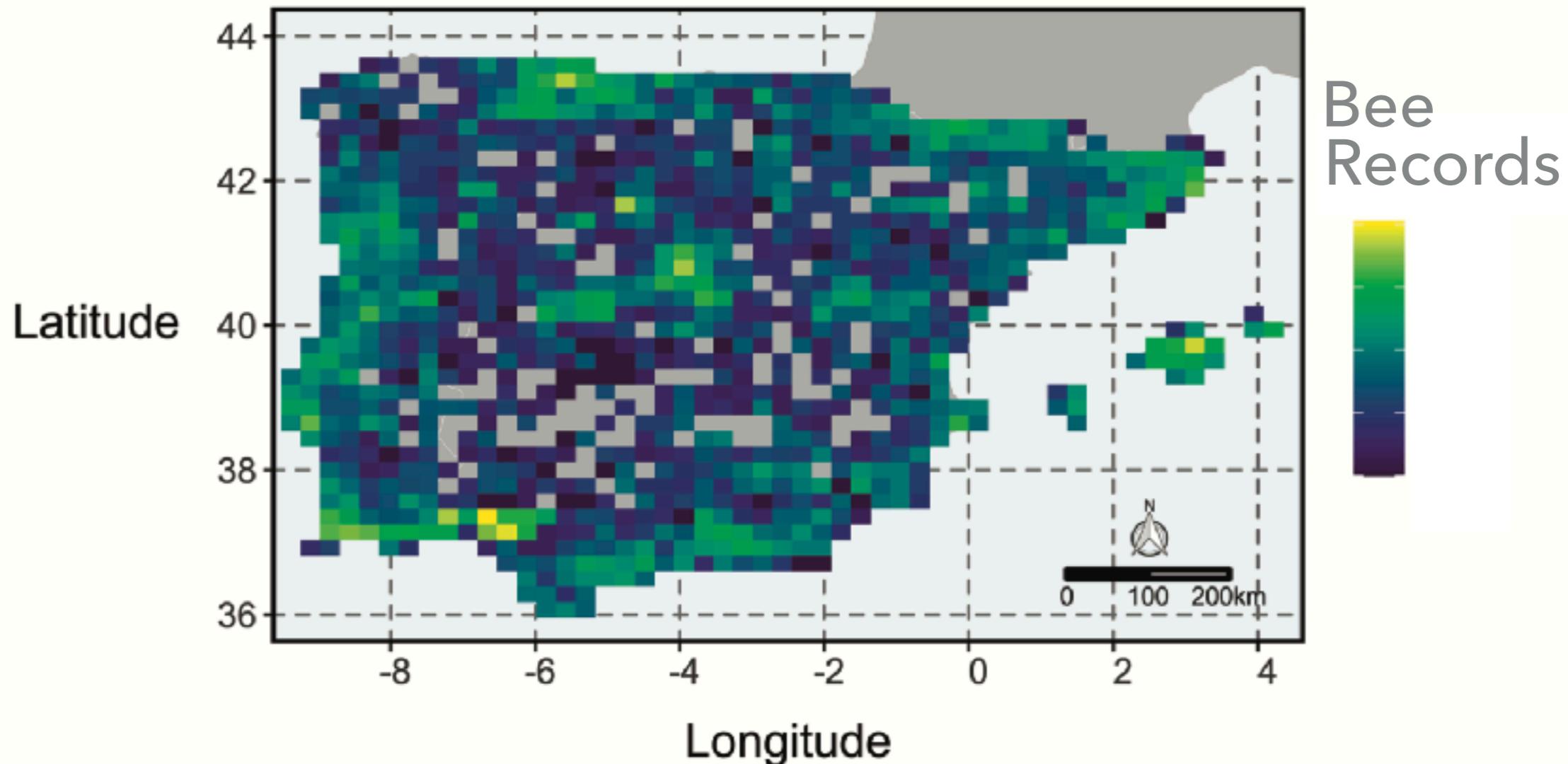




IUCN Update

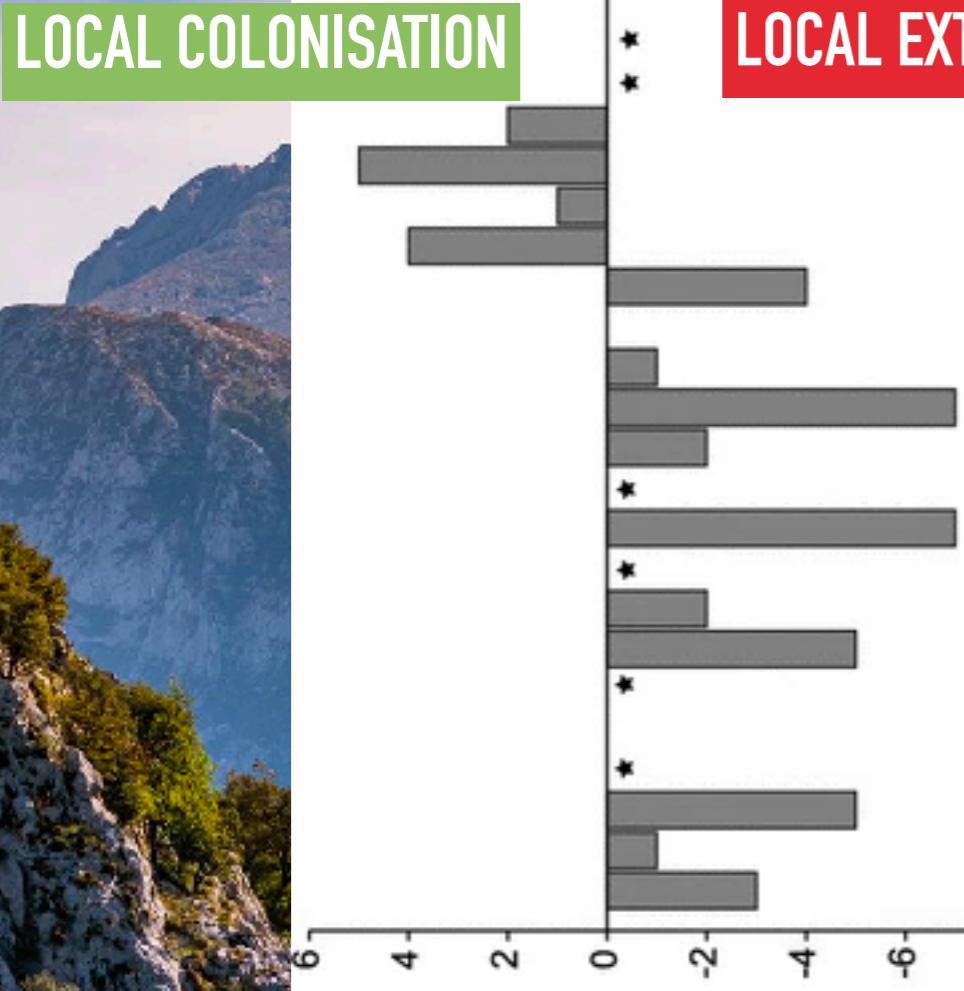
Bee Red List Assessment

Digitalised > 100.000 Records from Spain

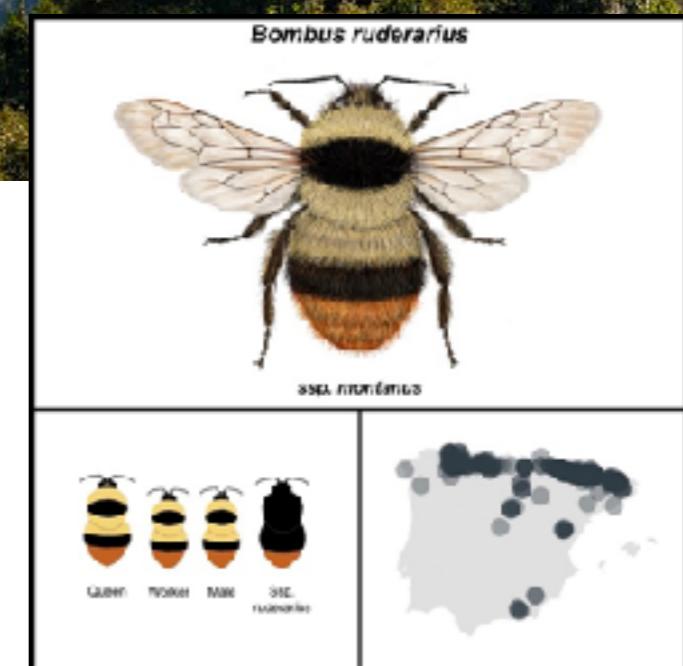


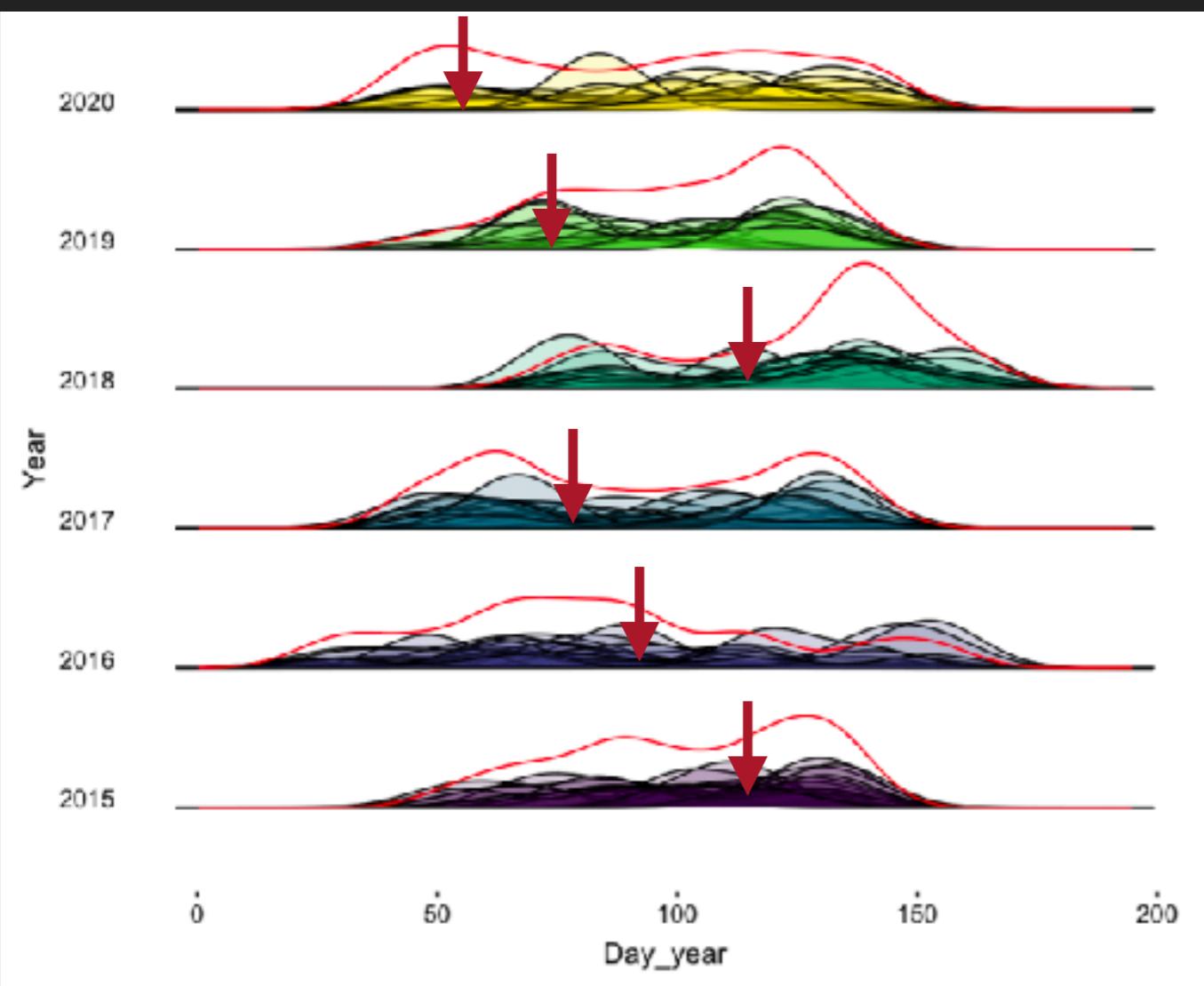
Picos de Europa

LOCAL COLONISATION



Pre vs Post 1980

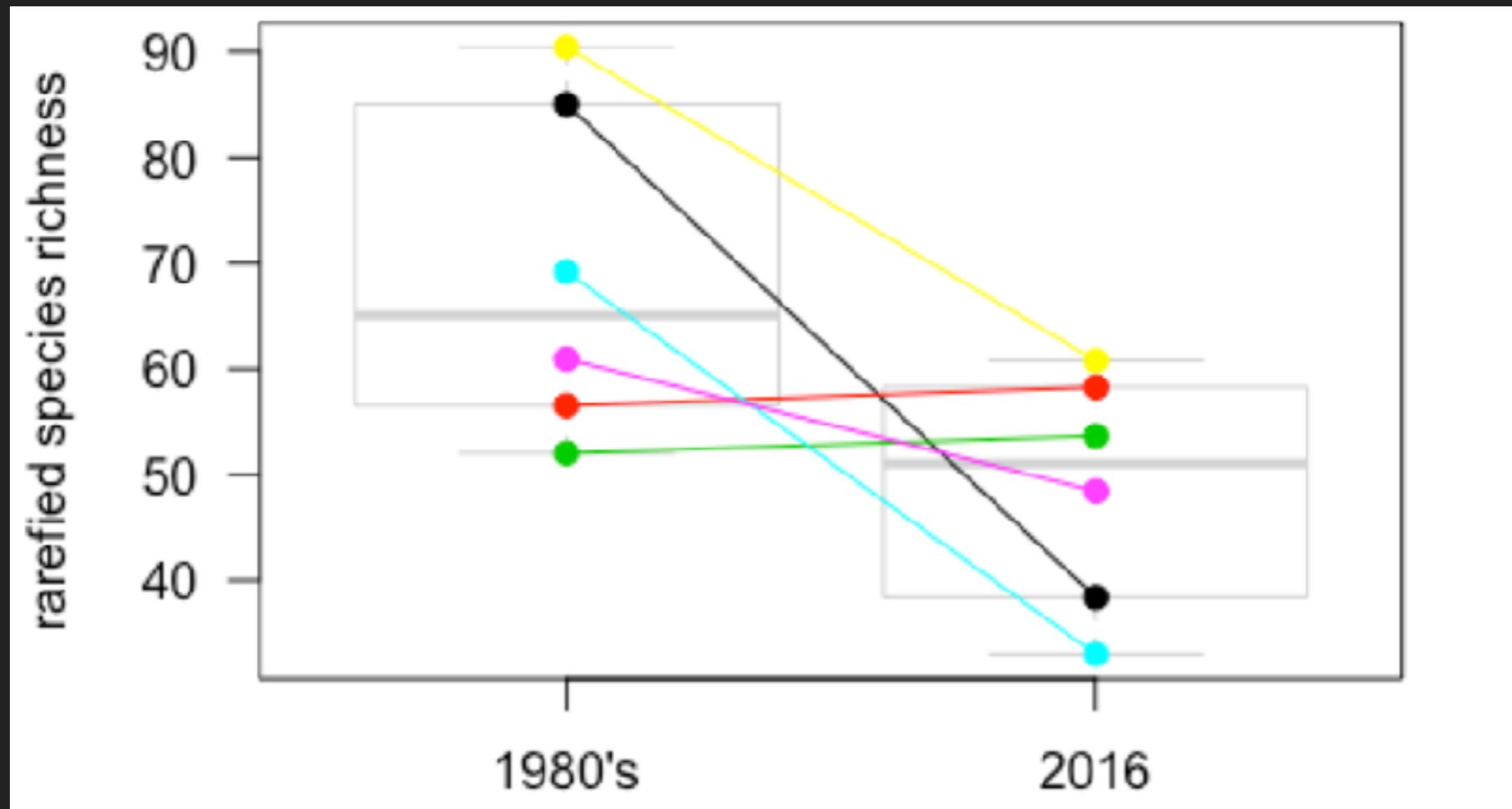




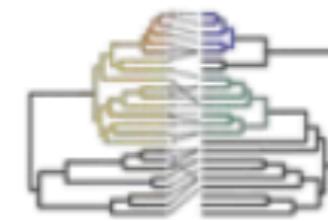
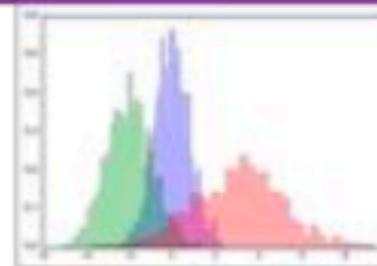
Doñana National Park



Castilla y
León



SAFEGUARD



Individuals

Traits Genetic diversity Evolution



Landscape

Continental

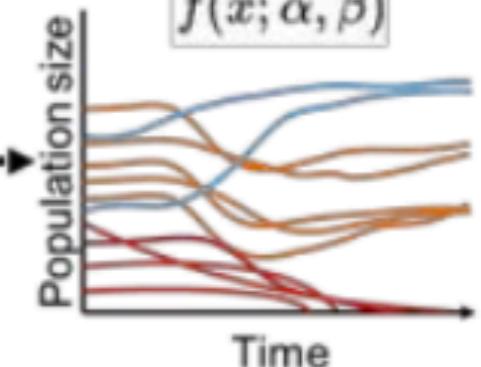
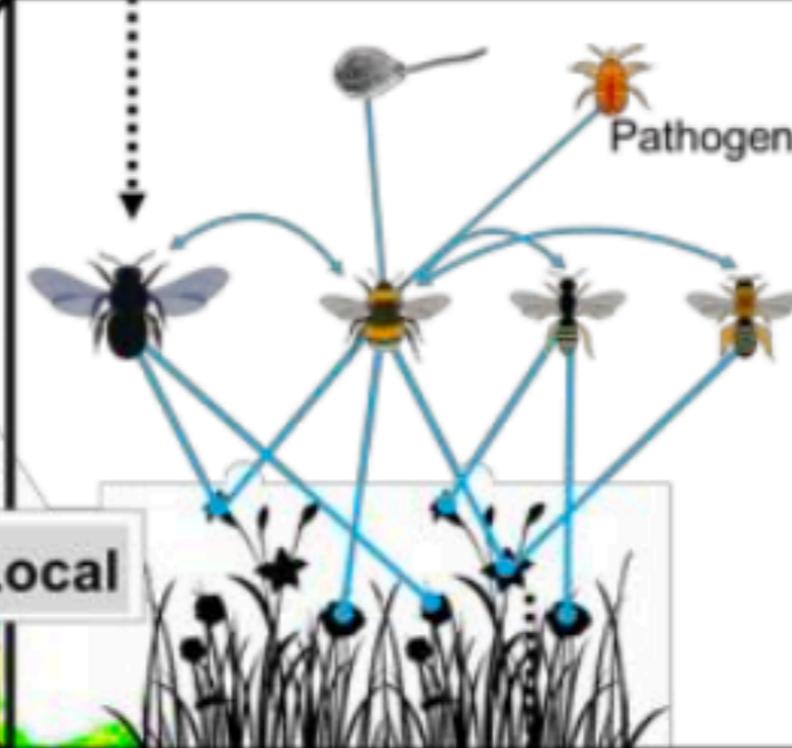
Local

Community



Wild plant reproduction & crop production

Function



Time
Populations

