

How spatio-temporal climate change shapes global biodiversity patterns

Jiaze Li

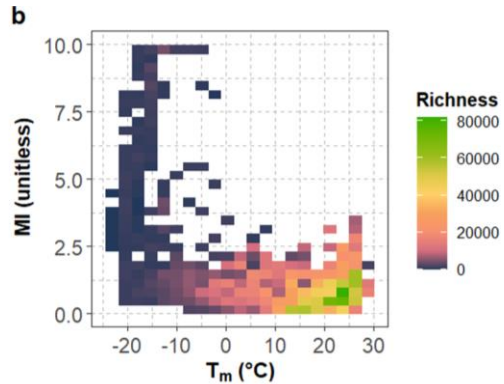
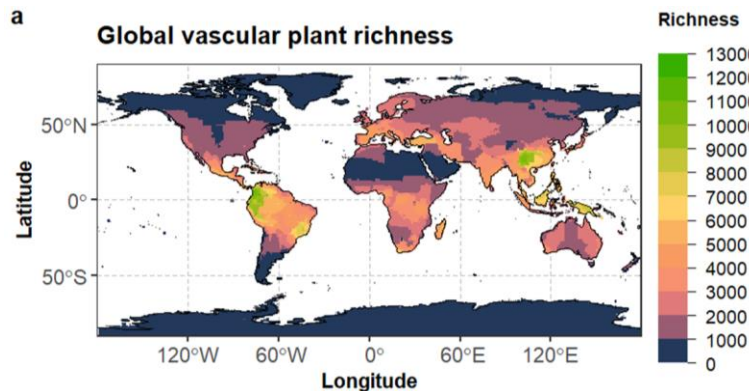
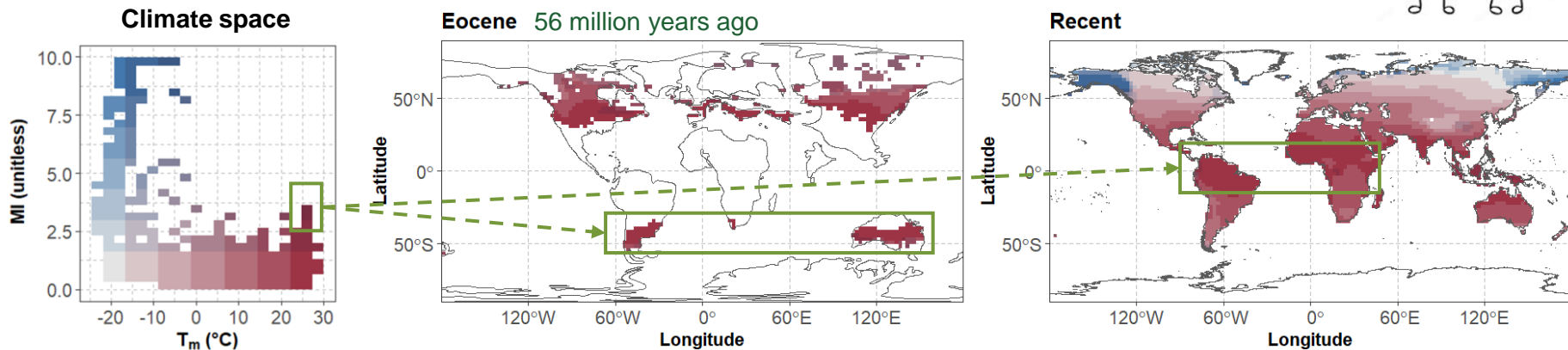
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Climate analogues – “twins” across space and time

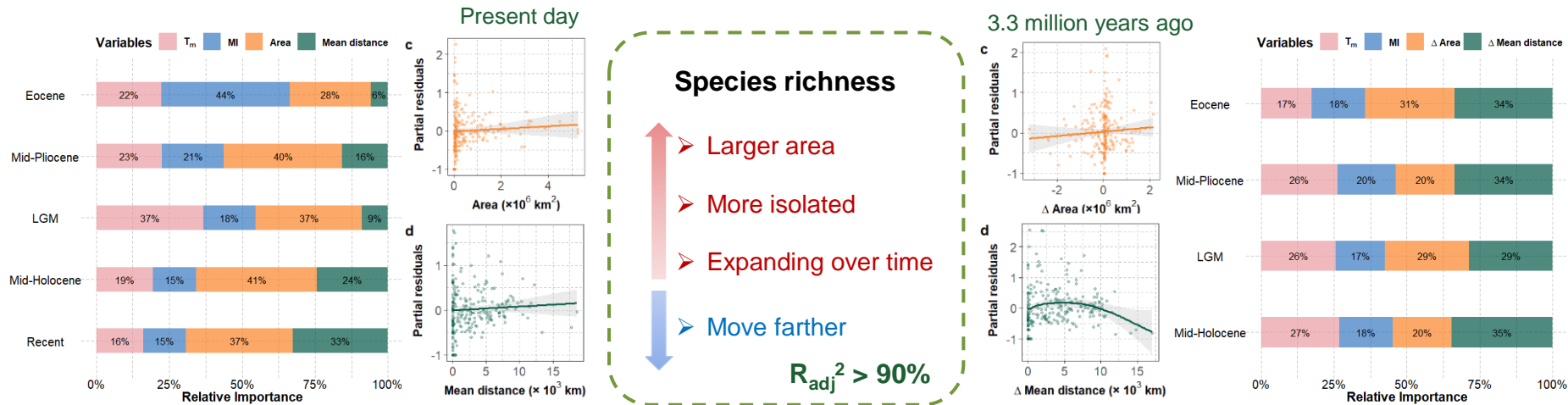
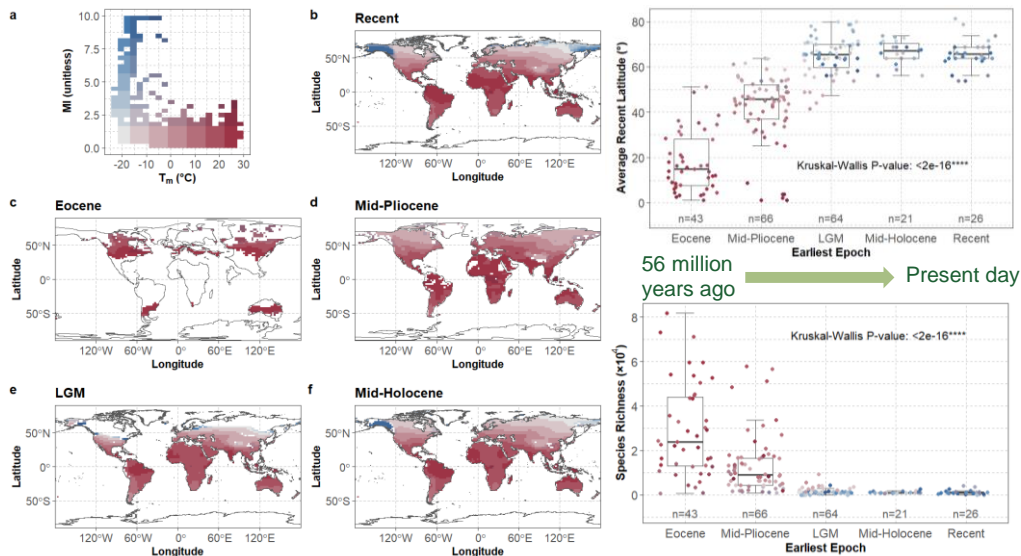


- 350,864 species (**cover > 98%** vascular plant species)
- **Most species-rich and most precise** plant diversity map to date

Why the tropics have more species

- Recent tropical climates **appeared earlier** than higher-latitude climates and have **more** species

Analogues of recent tropical climate **emerged earlier** and are **more prevalent** across space and time



Contribution to CBD and Kunming-Montreal GBF Targets

Applications of climate analogue:
identify future threaten regions

Quantifying the impacts of spatio-
temporal climate change

Best plant diversity data to date

Targets 1 – 3

Conserve and restore threatened
ecosystems

Target 8

Minimize the impacts of climate
change on biodiversity

Target 21

Available knowledge to guide
biodiversity action

Thank you!

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