



Impacts of differences in dispersive capacities between main land plant lineages on their macro-ecological and evolutionary patterns.

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Presentation for the InBioS Day, 15th June 2022
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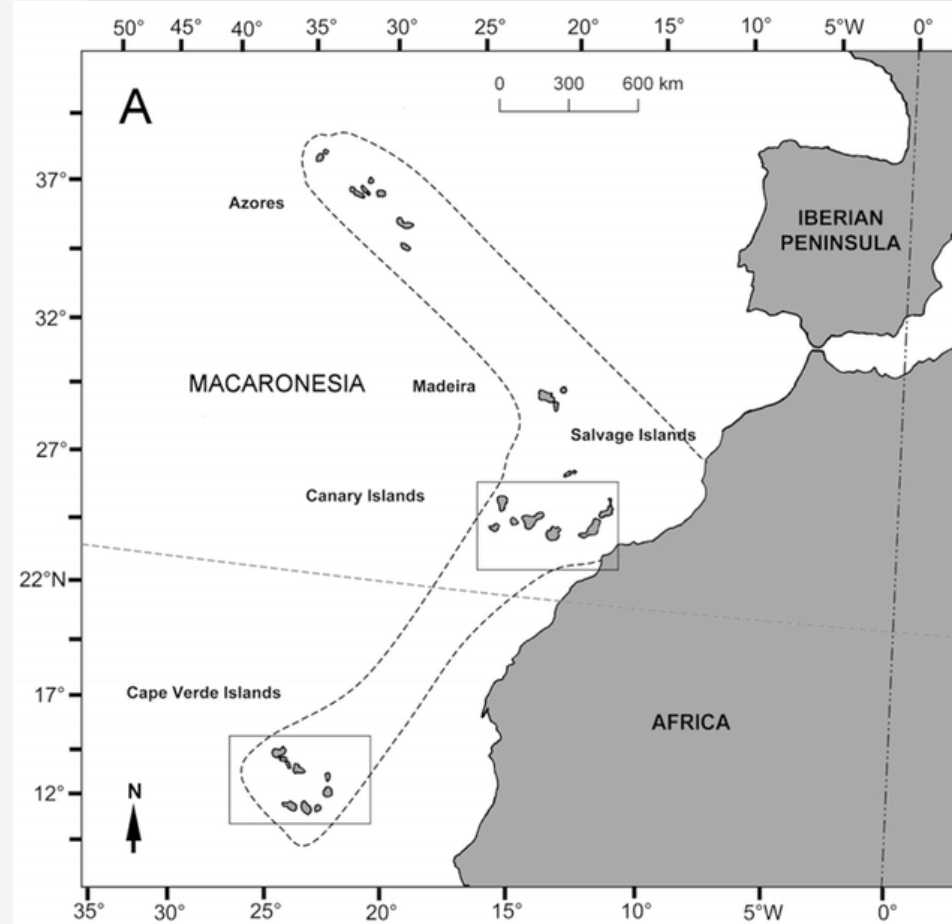
Introduction : Macaronesia



Μακάρων νησοι = « islands of the blessed »
Oceanic islands - Volcanic islands
North Atlantic Ocean
Various climates and habitats
Various sizes
Age : 0,7-20 Ma

4 archipelagos:

- Azores including 9 islands
- Madeira including 3 islands
- Canaries including 7 islands
- Cape Verde including 10 islands



Land Plant Taxa



MOSS

- Spore (10-30 μ m)
- No roots



LIVERWORT

- Spore (10-30 μ m)
- No roots



PTERIDOPHYTE

- Spore (50 μ m)
- Vascular and roots



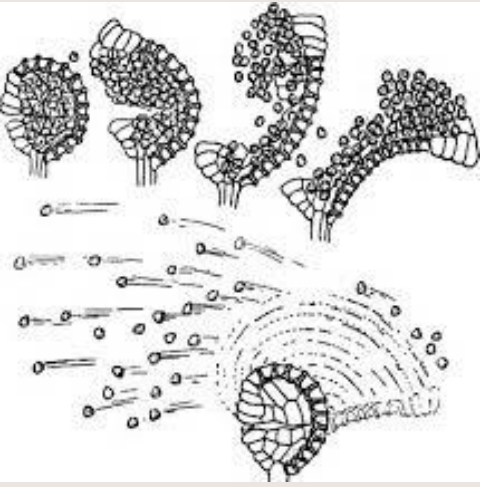
SPERMATOPHYTE

- Seed 0,1mm to +10cm
- Flower and cone
- Vascular and roots

Dispersal capacities



- Colonization pattern
- Radiation and diversification
- Specific richness
- Endemism rate



Objectives



1

Variation with scale
Variation among archipelagos
Variation among taxa
Drivers



Beta diversity

2

Floristic assemblage
Islands
Variation among taxa



Clustering

3

Variation with scale
Variation among taxa



Numbers of colonisation

4

Pteridophytes



Niche pre-emption

Questions ?

