

Bryophytes were the first land plants

'Bryophytes' refers to three clades of land plants:



Bryophytes first appeared in the Cambrian period around 500 million years ago

Morris *et al.* (2018). Timescale of early land plant evolution: controlling for competing topologies and dating strategies on divergence time estimates. *PNAS*.

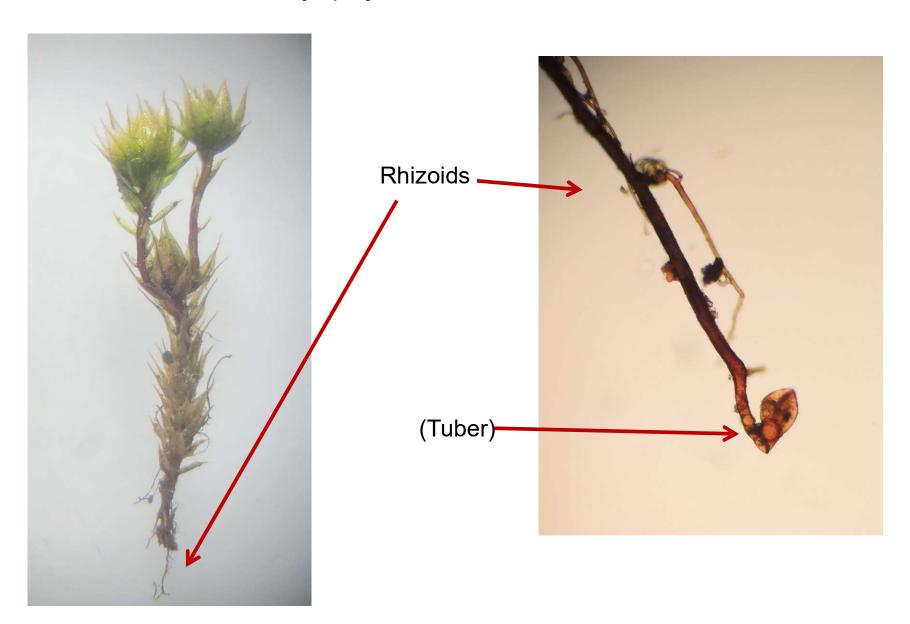




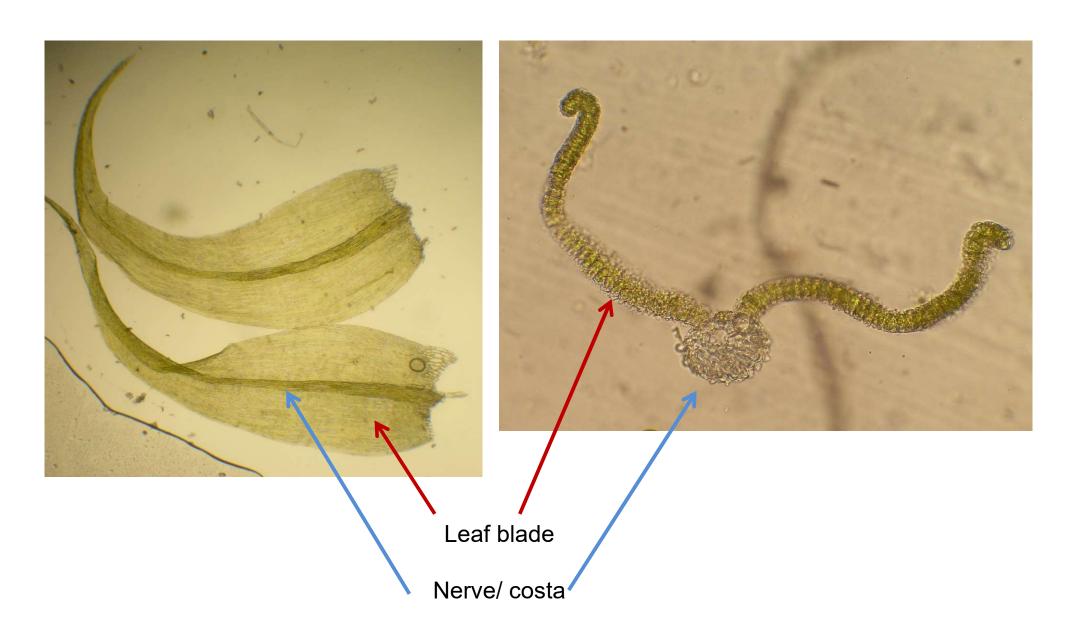


Some important features

Bryophytes do not have roots



Leaves are usually only one cell thick

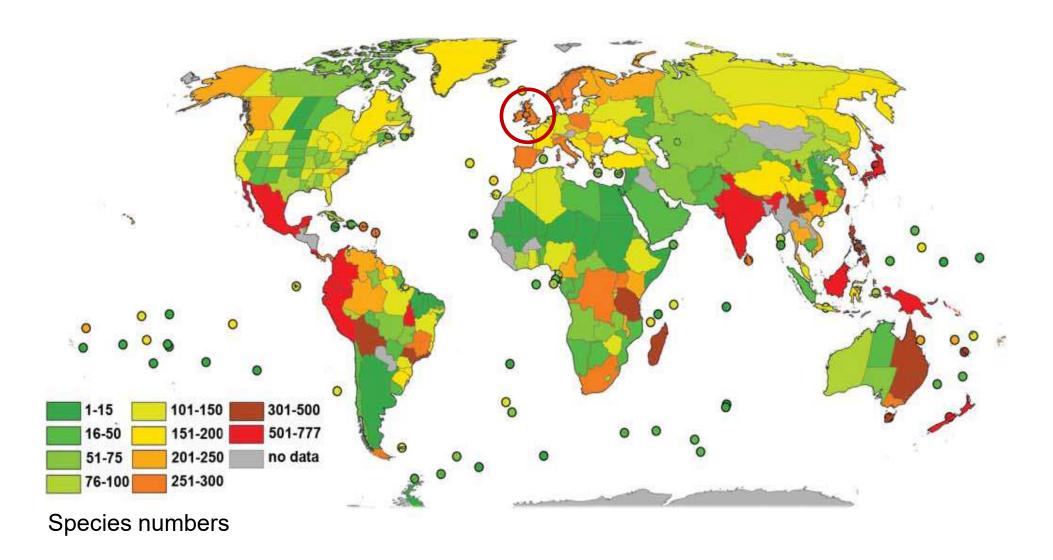








Liverwort distribution



Konrat et al (2008) Early Land Plants Today: Liverwort Species Diversity and the Relationship with Higher Taxonomy and Higher Plants

Liverwort habitats that are relatively frequent in Ireland BUT extremely rare globally



Coastal grassland/ dune slacks



Atlantic oak woodland



Atlantic communities of large liverworts

Global distribution of coastal temperate rainforest



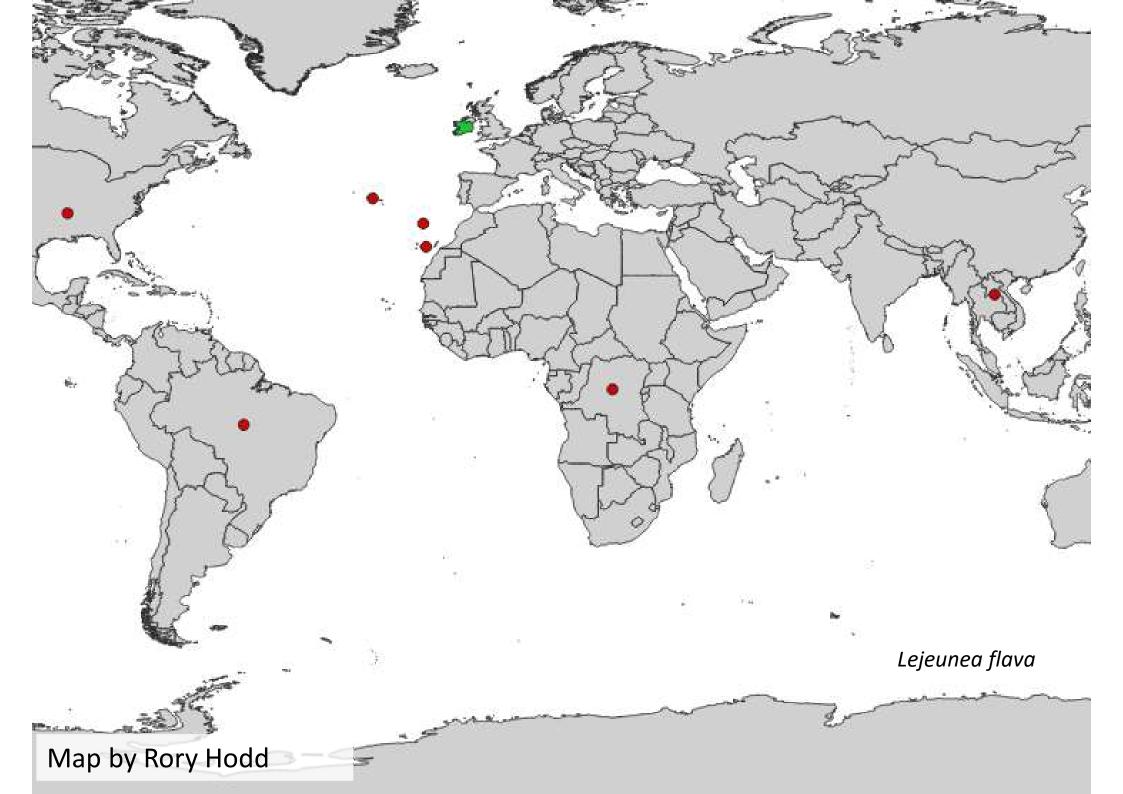
Map provided by Dr David Genney, Lower Plants Policy and Advice Officer, Nature Scot





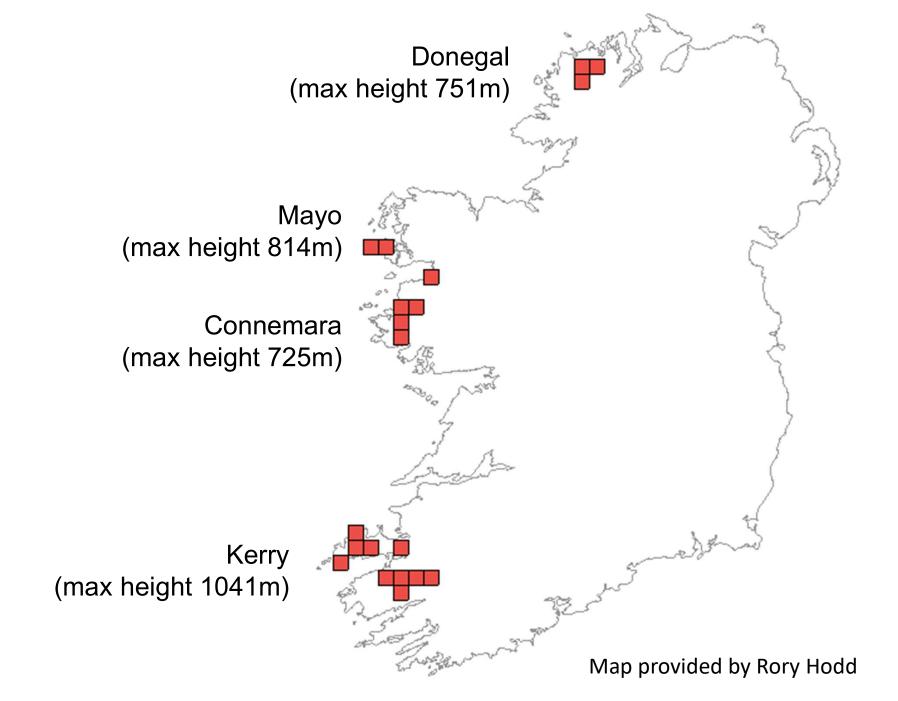




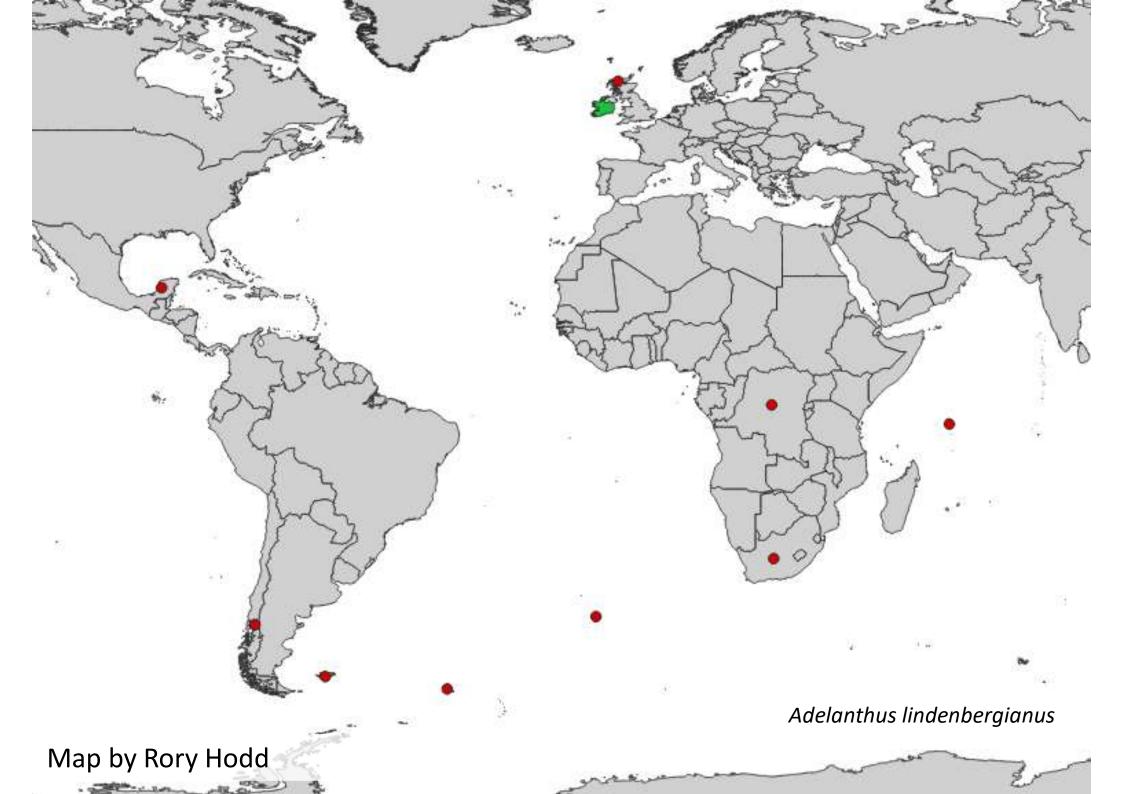




Distribution of hepatic mat in Ireland







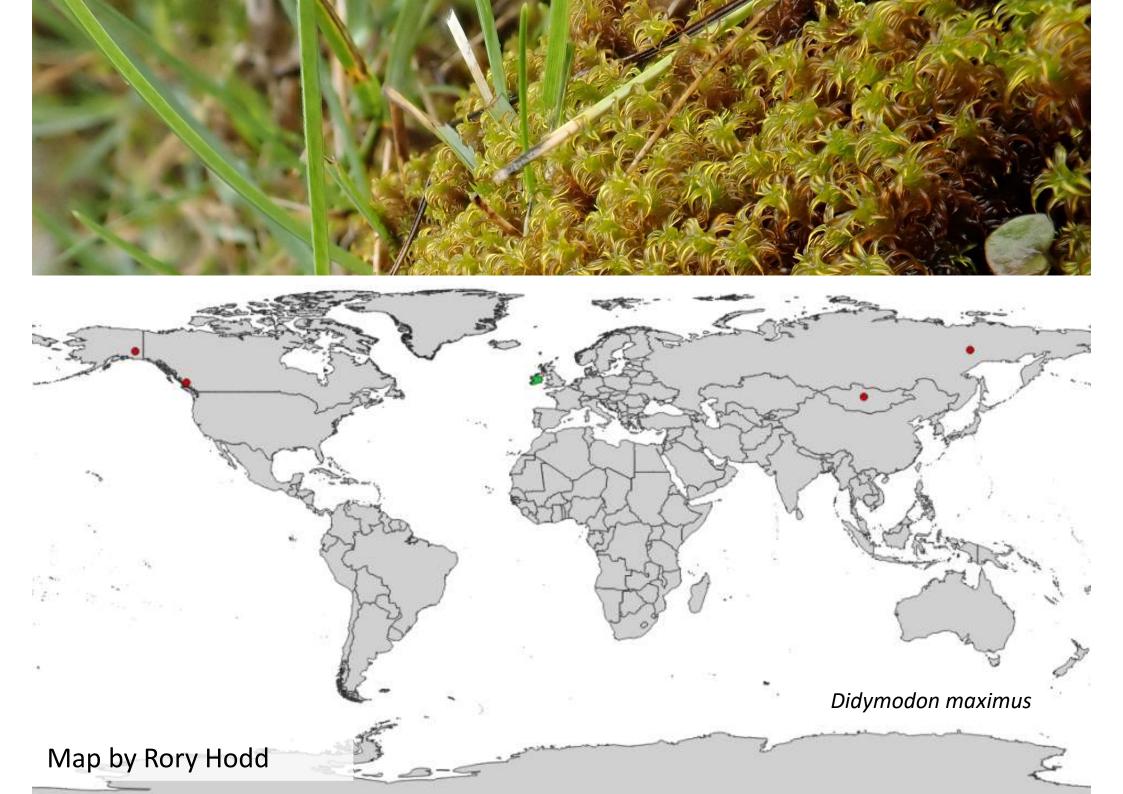


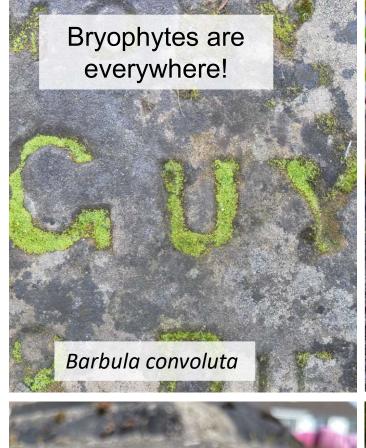




Seligeria oelandica

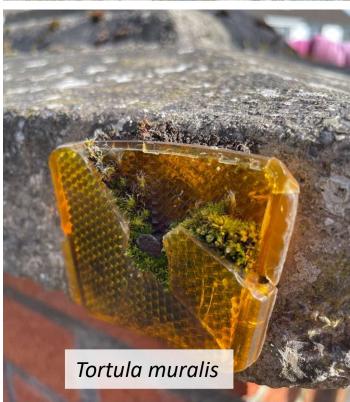
Blockeel, Bosanquet, Hill, & Preston (2014). Atlas of British and Irish bryophytes. British Bryological Society.















Why get involved?

- Lots of habitats to explore
- Bryophytes are everywhere!
- Few bryologists in Ireland
- Can make NVCR and contribute useful distribution data
- No modern floras Wicklow flora in progress
- Few VCRs lots of openings
- Habitat indicators

BBS website:

https://www.britishbryologicalsociety.org.uk

Irish Bryophyte Group mailing list: joanne@denyerecology.com

