

Why ecosystem function?



- Provides resources for plants, animals, and people
- Carbon storage
- Resilience to environmental change

Belowground ecosystem functions

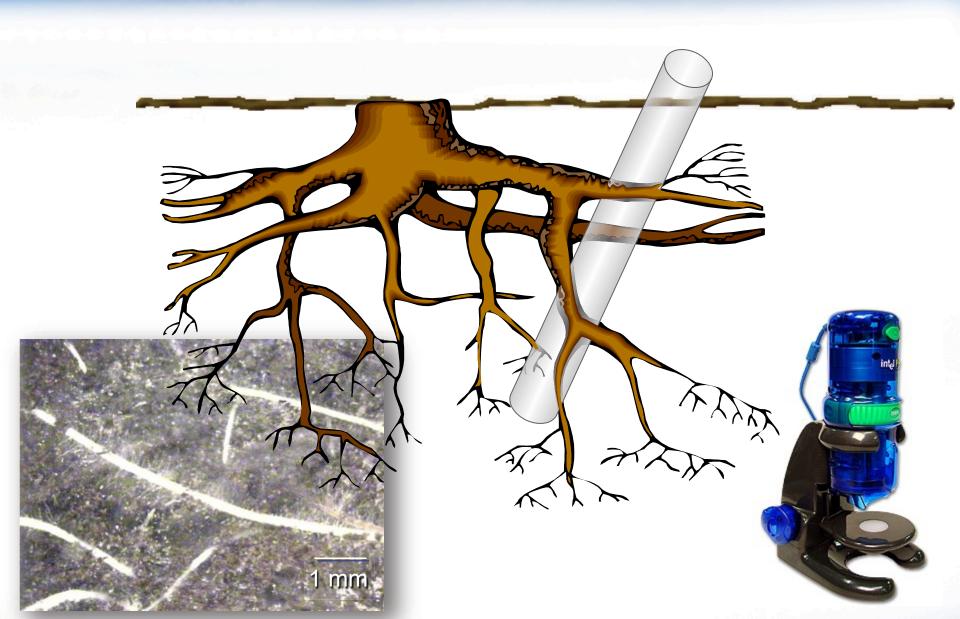


- Root growth
- Mycorrhizal fungi
- Decomposition

Root growth

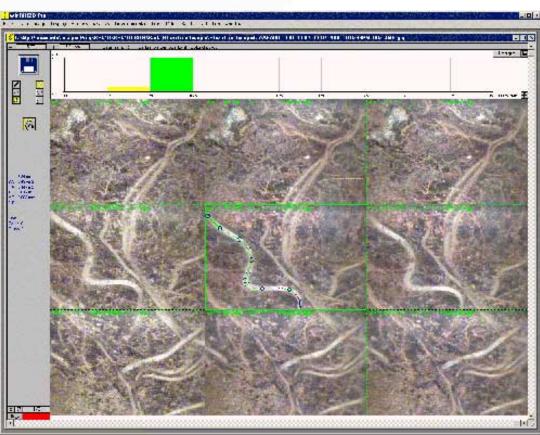


Minirhizotrons: Belowground cameras

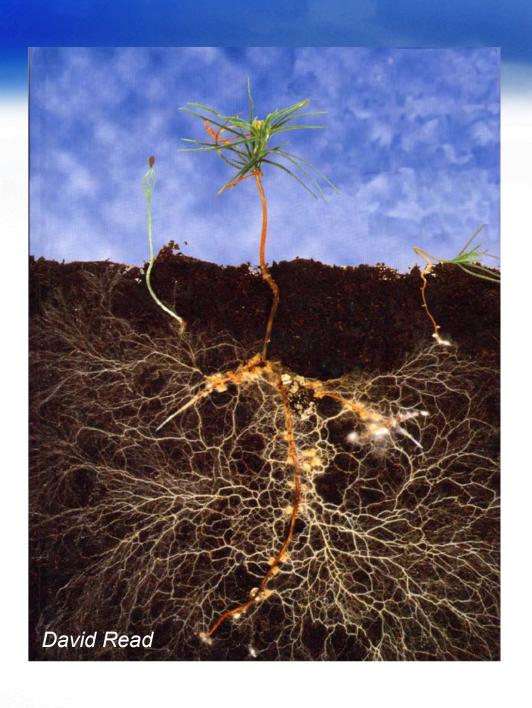


Measuring root length and biomass

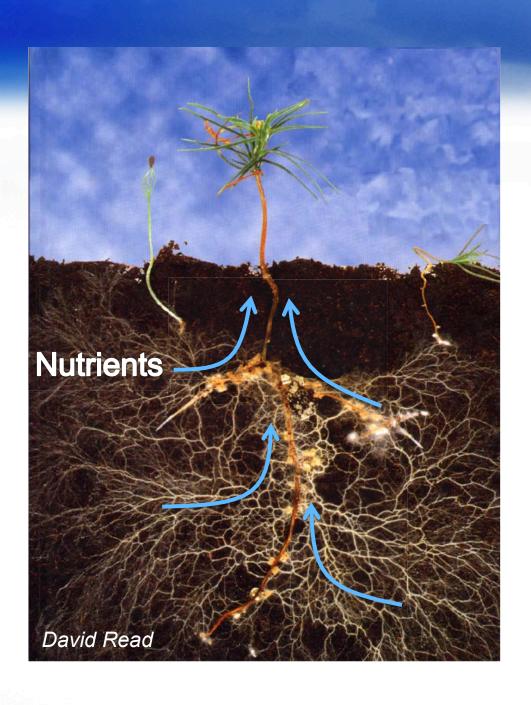




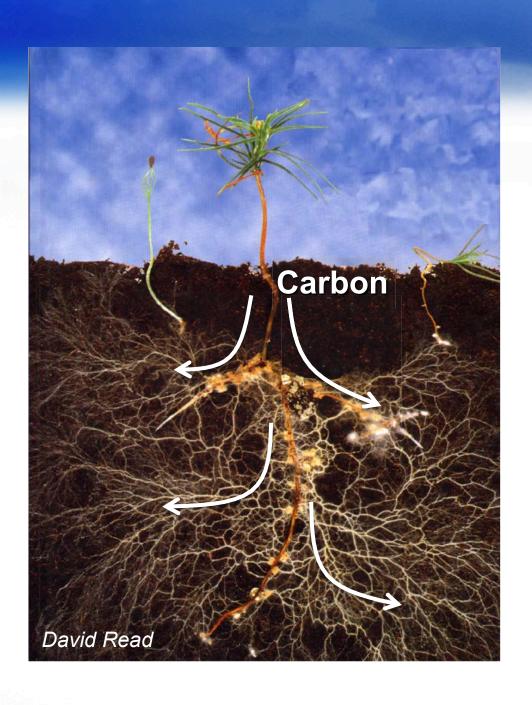
WinRhizo Tron



Mycorrhizal fungi



Mutualism



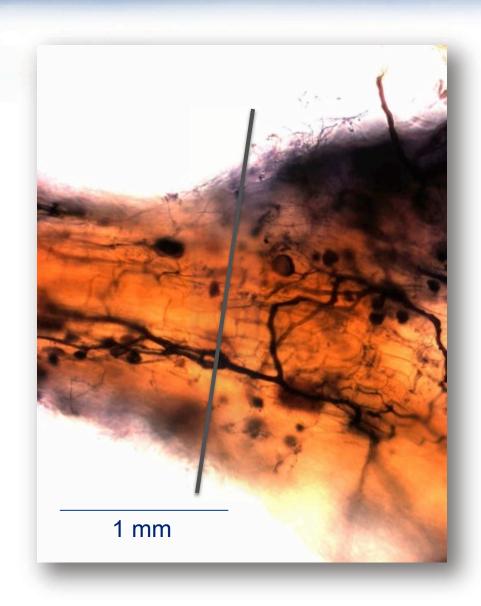
Mutualism

"Little plant, big plant"

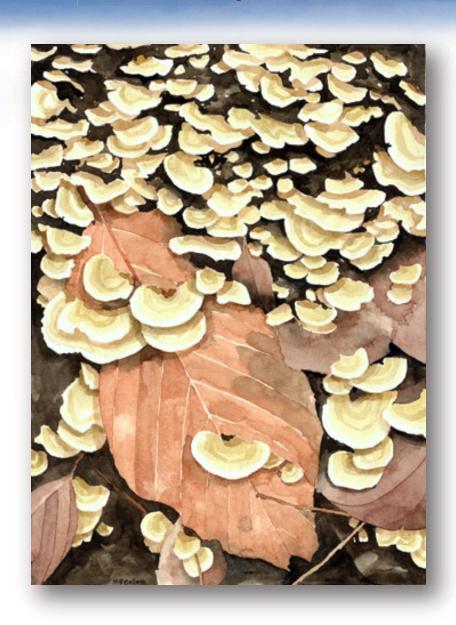


without mycorrhizal fungi with mycorrhizal fungi

Measuring mycorrhizal fungi



Decomposition

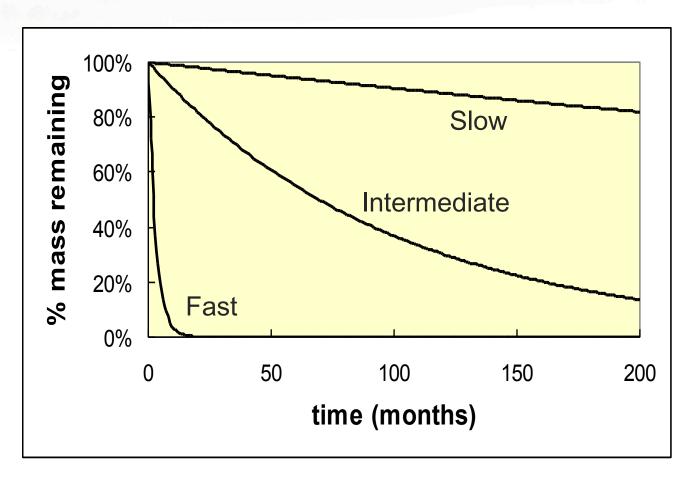


Litterbags measure decomposition





Decomposition rate = loss of mass





Belowground ecosystem function



- Energy for animals
- Nutrients for plants
- Erosion prevention
- Carbon storage