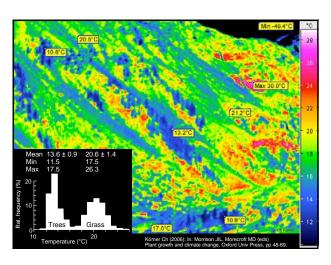


- Why are trees limited by a common isotherm?
- Why do other taxa and life forms thrive at >1000 m higher altitude?
- Are trees physiological inferior?

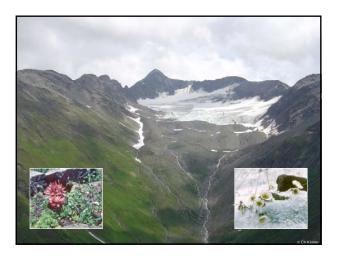
© Ch Körne

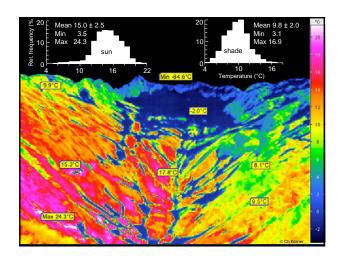


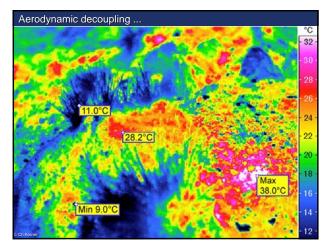


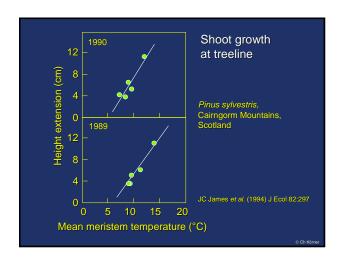
- Trees are disadvantaged by their architecture, not by inappropriate physiology.
- Aerodynamic coupling of tree crowns to atmospheric circulation.

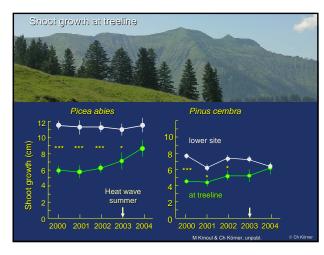


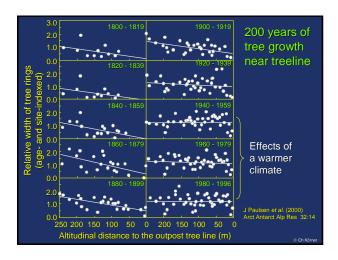




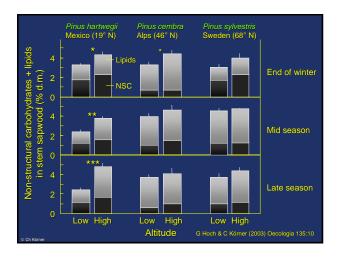




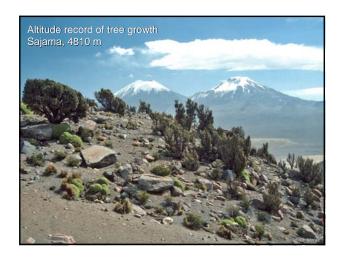


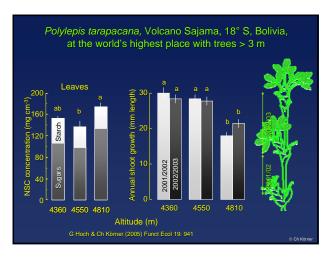


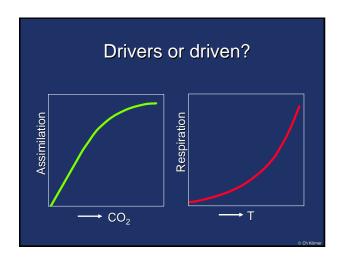
Treelines are controlled by sink activity (meristems) not by source activity (photosynthesis).

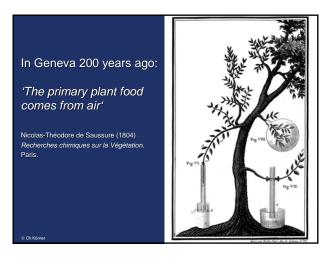


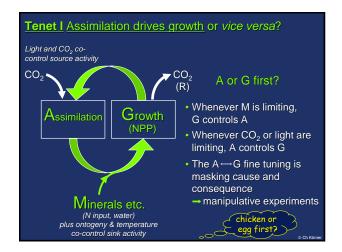




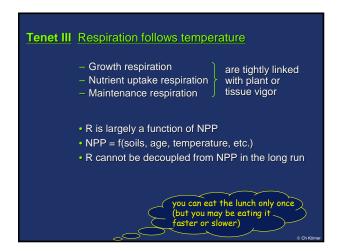


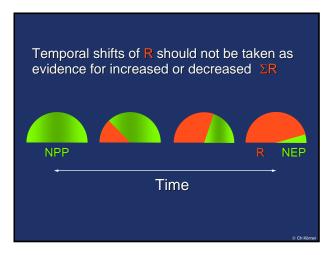


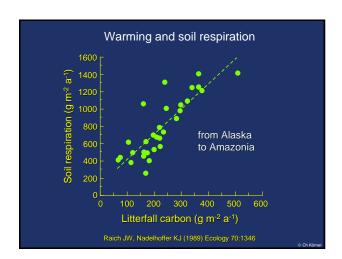


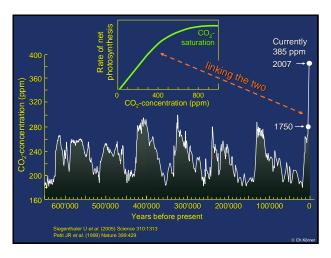


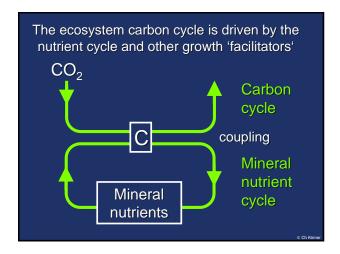




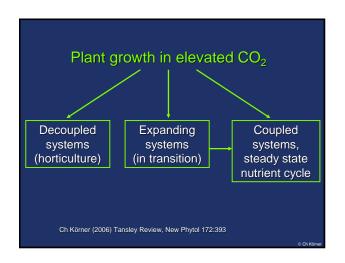


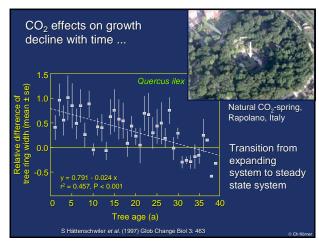






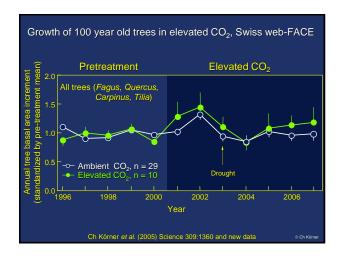


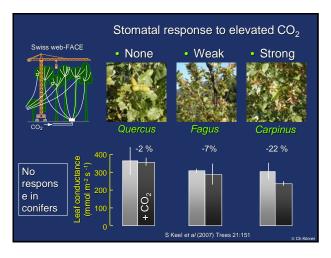


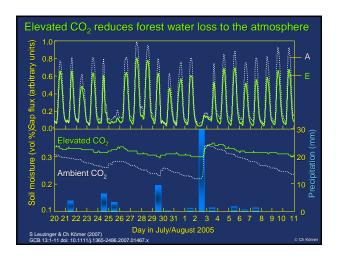


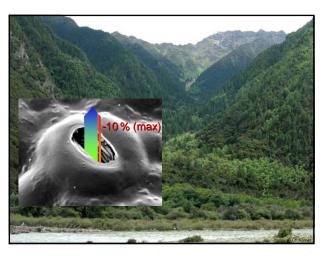


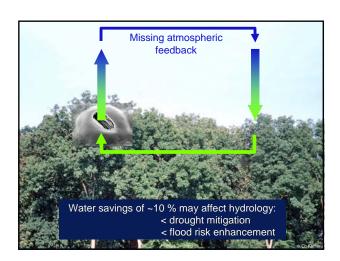












- <u>Increasing drought</u> in the Mediterranean is a reality, and species differ in their responses.
- <u>Climatic warming</u> should effect the world treelines directly and now.
- <u>Elevated CO</u><sub>2</sub>: natural systems likely to be carbon saturated, and biodiversity is affected (indirect effects via water relations).