



## Water use and growth responses of Norway spruce and European larch to experimental drought at the subalpine tree line

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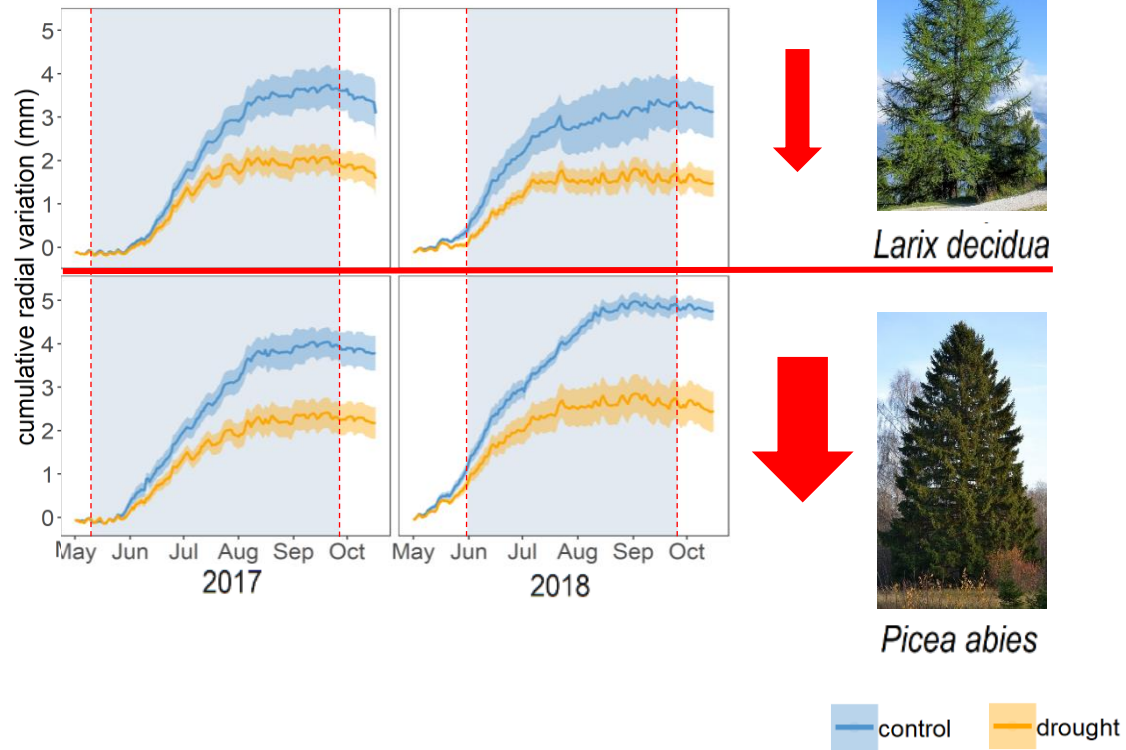
# Background

How does severe and recurring summer drought affect **growth** and **water use** of trees at the subalpine tree line?



# Results

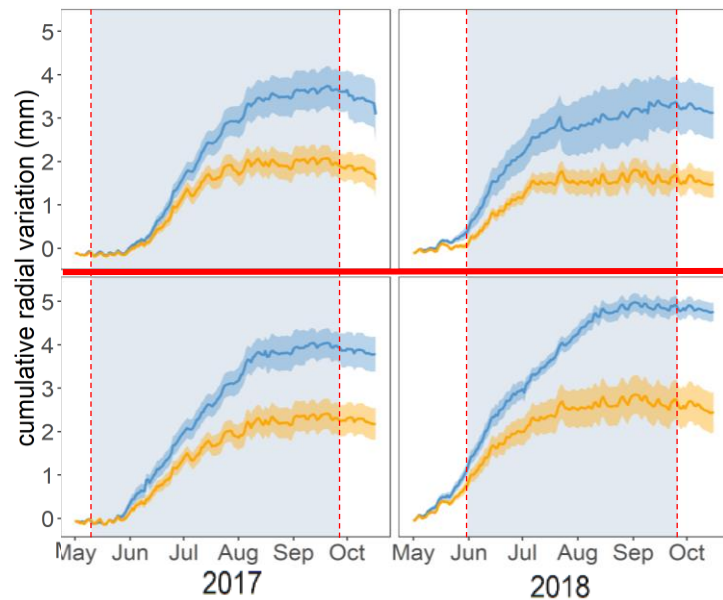
Cumulative **radial growth**





# Results

Cumulative **radial growth**

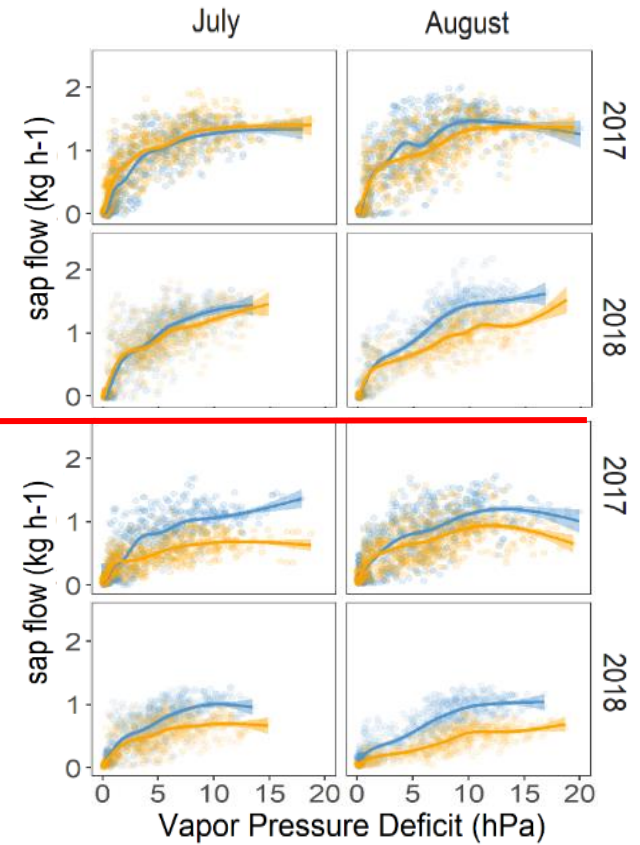


*Larix decidua*



*Picea abies*

Response of **sap flow** to VPD



control drought

# Summary

How does severe and recurring summer drought affect **growth** and **water use** of trees at the subalpine tree line?

- Reduced growth and water use
- Effects more pronounced for spruce than for larch

→ Implications for **species composition, tree line shift, forest management,...**

