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**Alpine Botany**, 2026; <https://doi.org/10.1007/s00035-026-00351-9>

Sap flow characteristics and canopy transpiration of *Alnus alnobetula* within the treeline ecotone of the Central Tyrolean Alps

Gerhard Wieser<sup>1</sup> · Walter Oberhuber<sup>1</sup> · Andreas Gruber<sup>1</sup>

**Ecology and Evolution**, 2025; <https://doi.org/10.1002/ece3.72198>

Decoupling of Radial Growth Phenology From Temperature Constraints in the Clonal Shrub *Alnus alnobetula* at the Alpine Treeline

Walter Oberhuber | Gerhard Wieser | Andreas Gruber

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**forests** 2024; <https://doi.org/10.3390/f15010024>



Article

Impact of Environmental Conditions on Wood Anatomical Traits of Green Alder (*Alnus alnobetula*) at the Alpine Treeline

Andreas Gruber , Gerhard Wieser , Marion Fink and Walter Oberhuber <sup>\*</sup>



**plants** 2023; <https://doi.org/10.3390/plants12081708>



Article

Climate Overrides the Influence of Microsite Conditions on Radial Growth of the Tall Multi-Stemmed Shrub *Alnus alnobetula* at Treeline

Walter Oberhuber <sup>\*</sup>, Anna-Lena Dobler, Tamara Heinzle, Francesca Scandurra, Andreas Gruber and Gerhard Wieser



**forests** 2022; <https://doi.org/10.3390/f13030440>



Article

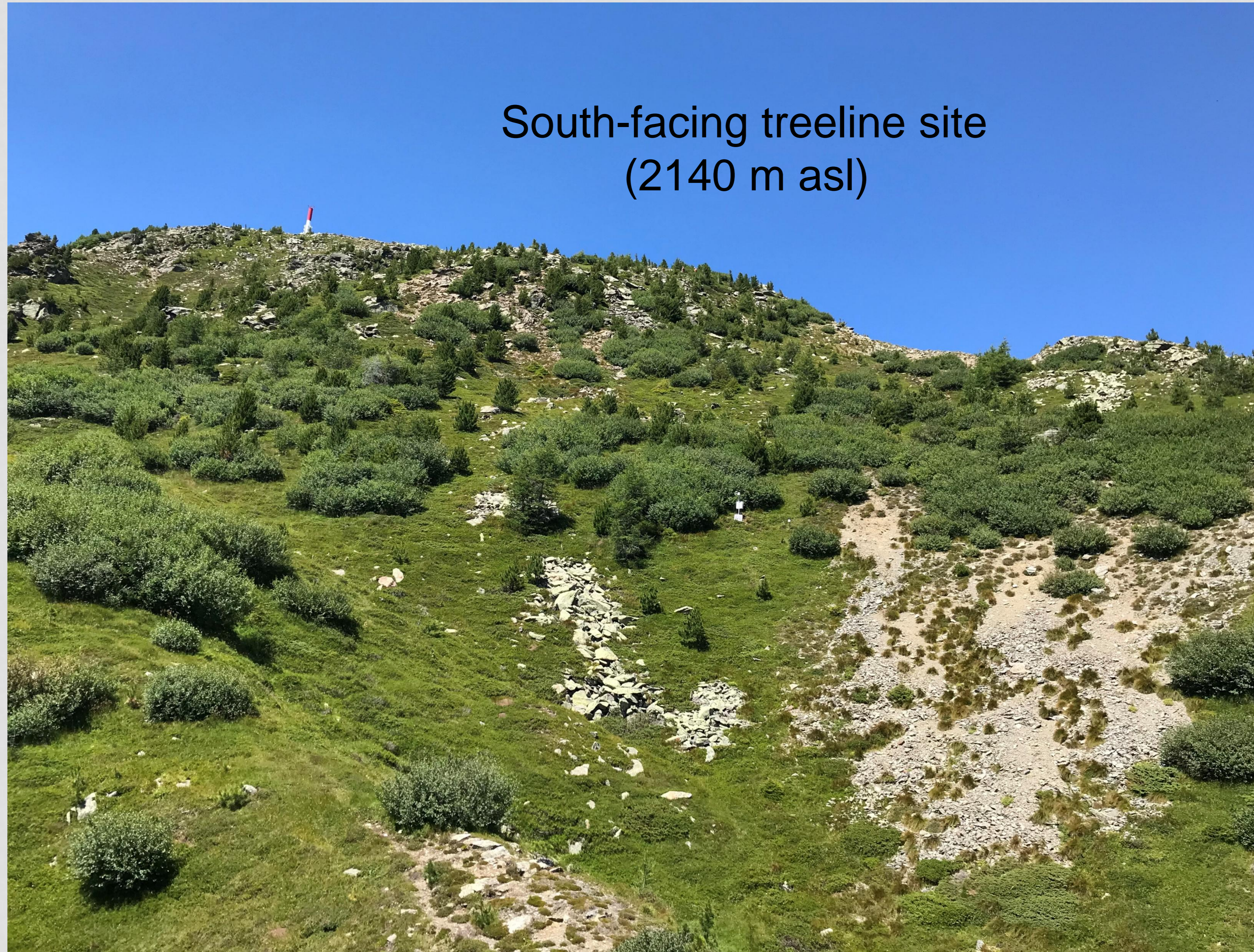
Radial Stem Growth of the Clonal Shrub *Alnus alnobetula* at Treeline Is Constrained by Summer Temperature and Winter Desiccation and Differs in Carbon Allocation Strategy Compared to Co-Occurring *Pinus cembra*

Walter Oberhuber <sup>\*</sup>, Gerhard Wieser , Fabio Bernich and Andreas Gruber

**Mt. Patscherkofel** (Tyrol, Central European Alps)  
(2246 m asl)



South-facing treeline site  
(2140 m asl)



**Valley site** (Botanical Garden, Innsbruck, Austria)  
(600 m asl)



North-facing treeline site  
(2150 m asl)



Point dendrometer mounted  
on the stem of *Alnus alnobetula*  
(ZN12-O-WP, Natkon.ch, Switzerland)