



Engler Saal
+
Zoom Room

<https://wsl.zoom.us/j/63741013879?pwd=Y0FMQUdrV2pQU0lqTzZCSmNSWkZLUT09>

Meeting-ID: 637 4101 3879
Code: 304178

Tuesday, December 12th, 2023

3:00 pm (CET)

Birmensdorfer Tree-Ring Lecture

Prof. em. Chistian Körner

Department of Environmental Sciences, Botany
University of Basel
Switzerland

A conceptual framework for treeline biology that permits hypothesis testing

Treeline ecology has a long history, with the first prominent account by A. von Humboldt, who coined the biogeographic isotherm concept that connects the world's mountains from the tropics to the Arctic. As one looks closer to the very nature of the global patterns of uppermost or northernmost tree occurrences, it becomes obvious that one needs to make a distinction between actual tree distribution and the physiologically possible range limit of the life form tree. The classical niche concept offers the best approach to formulate this distinction. After sorting out theory, I will address the various approaches toward a functional explanation of the global treeline phenomenon. I will close by exemplifying current treeline dynamics in response to climatic warming in the Alps. For an earlier synthesis see Körner C (2012) *Alpine Treelines*, Springer, and for a recent summary see <https://onlinelibrary.wiley.com/doi/10.1111/jbi.14593>

Chaired by
Paolo Cherubini

Birmensdorfer Tree-Ring Lectures Programme

Tree-Ring Lectures - Forthcoming: ... 2023 *Scientific talks and presentations given by WSL scientists and staff, typically a 1-hour monthly meeting*

Special Invited Tree-Ring Lectures - Organized *ad hoc* and *ad libitum!* *Invited guest lectures given by scientists, students, guests, visitors in the labs who are not present to give a talk during a regularly scheduled Tree-Ring Lecture*

Tree-Ring Spring's Event - Forthcoming: May 2024 *A springtime event, at Birmensdorf or surroundings*

Tree-Ring Summer Meeting - Forthcoming: August 2024 *A one- or half-a-day scientific meeting dealing in depth with one topic, finishing with a BBQ in the WSL gardens*

Tree-Ring Fall Excursion - Forthcoming: October 2024 *A one- or two-day scientific excursion of the whole tree-ring community with talks and presentations on research achievements or ongoing projects in the region*

Tree-Ring November Journal Club - Forthcoming: November 2024 *A half-a-day presentation of the most influential papers published by not-WSL staff in the different fields of tree-ring related sciences during the past year, chosen by selected WSL scientists and students*

Tree-Ring December's Forum - Forthcoming: December 2023 *A discussion among WSL scientists on hot and emerging issues in tree-ring science, moderated and including invited talks and a panel discussion or not, concluding into the traditional Dendro X-mas Apéro*

Audience

WSL Dendrosciences Group's scientific and technical staff, WSL tree-ring scientists, PhD students, Master students, WSL scientists, tree-ring interested scientists and students working in the Zurich area (e.g., ETHZ, PSI, UZH) and in Switzerland or European countries (although we don't believe that people from overseas will run, swim and fly to these meetings, of course, scientists from other parts of the world are warmly welcome too!).

Chair

Each meeting will be chaired by a WSL scientist depending on the topic and willingness.

Proposals for meetings....

.... are welcome!

Language

English preferred.

Scientific Committee

Dr. Paolo Cherubini, Dr. Patrick Fonti, Dr. Holger Gärtner, Dr. Kerstin Treydte, Dr. Georg von Arx

Organisation

Dr. Paolo Cherubini, Dr. Georg von Arx