

Dendrochronology in Cold Regions

Dear Colleagues,

The free open-access journal *Polish Polar Research* (IF 0,9), is currently running a Special Issue entitled: „**Dendrochronology in Cold Regions**”.

Magdalena Opala-Owczarek (Institute of Earth Sciences, University of Silesia in Katowice, Poland) and Piotr Owczarek (Alfred Jahn Cold Regions Research Centre, University of Wrocław, Poland) are serving as Guest Editors for this issue.

CALL FOR PAPERS

It has been almost 100 years since the first pioneering dendrochronological research by Endrew E. Douglass and the establishment of the world's first dendrochronology laboratory at the University of Arizona (1937). Dendrochronological research has been carried out mainly in the temperate zone and has been directed towards various scientific fields: climatology, ecology, geomorphology, archaeology and several others. In the Arctic and high-mountain regions, however, dendrochronological research is limited by the lack of trees. The only woody plants are shrubs and dwarf shrubs. The enormous potential of these plants for multidisciplinary environmental research was only recognised about three decades ago. The first Polish dendrochronological studies of dwarf shrubs were started in 2007 in the vicinity of the Stanisław Baranowski Polar Station of the University of Wrocław and the Polish Polar Station in the Hornsund in southern Spitsbergen. The number of publications in the field of polar and alpine dendrochronology has increased rapidly in recent years, but many research problems remain unsolved.

The main goal of this thematic collection is to present new results of dendrochronological research conducted **in the Arctic and high-mountain areas from different parts of the world** and across the hierarchy from regional to global. Original results and reviews in the broad field of Earth sciences, where dendrochronology based on Arctic, subalpine and alpine plant analysis is the main research method, are welcome.

The submission deadline will be **15th December 2025**. For further details on the submission process, please see the instructions for authors at the journal website (<https://journals.pan.pl/ppr/>).

We look forward to hearing from you.

If you have any questions, please do not hesitate to contact us: magdalena.opala@us.edu.pl, piotr.owczarek@uwr.edu.pl

