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Dendrochronology in Arid Regions

Guest Editor:

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Deadline for manuscript
submissions:

closed (15 April 2023)

Message from the Guest Editor

Drylands are home to more than 38% of the total global population and are one of the most sensitive areas to climate change and human activities, and the IPCC reportedly expects a considerable increase in the dryland expansion rate resulting in drylands covering half of the global land surface by the end of this century. Such an expansion of drylands would lead to reduced carbon sequestration and enhanced regional warming that will exacerbate the risk of land degradation and desertification in the near future. Tree rings have long been recognized as a useful proxy for past climate variations because of their special characteristics, such as precise dating, annual resolution, long time series, and climate sensitivity. Because forest vegetation is particularly sensitive to changes in moisture availability in drylands, tree-ring materials have been frequently used to resolve climatic and ecological questions in drylands.

For this Special issue, we encourage the submission of manuscripts on any aspects of tree-ring studies in drylands. We accept reviews and short- and full-size research papers which cover the aforementioned subjects.



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