

Drought in the mountains

Session proposers: DMCSEE and HUCID

Mountains are especially vulnerable part of the continents to climate change. The changes on the higher latitudes have negative impacts not only on the often protected ecosystems, but on whole catchment areas, because rivers have their sources in these regions. Mountains operate as water towers, supplying large areas with water. Therefore, the water balance changes harm not only the mountainous ecosystems, but practically everywhere on the continents. Therefore, drought information in the mountains are very important. Scarce meteorological in situ measurements make the verification of model results problematic on higher elevations. As it follows, the uncertainty of the projections is larger in the mountains. Drought events will be more frequent and severe in the future first of all according to the increasing precipitation intensity.

Session plans to deal with the climatological and hydrological aspects of drought in the mountains, and their impacts on the natural and social environment.

Introductory lecture:

Sandor Szalai, Gregor Gregoric: Drought researches in the Carpathians and Southeaster-Europe

Session leaders:

Andreja Susnik, Sandor Szalai, Gregor Gregoric