

Impact of rising temperatures on future changes of liquid precipitation quantiles

In mountainous regions temperature conditions affect precipitation phase (liquid or solid) and, in turn, the probability of flood events.

Climate change has been determining an increase of the liquid fraction during heavy storms leading to an intensification of the flood regime. Being able to properly quantify these changes is pivotal for future hydrological risk assessments.

In this presentation we assess projected changes in the liquid precipitation extremes over the Upper Adige river catchment for different temperature thresholds, based on convection-permitting models (CPMs).



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