

## **Future evolution of the snowpack in the Iberic peninsula**

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The mountainous snowpacks are expected to be differently sensitive to the ongoing climate change. We model the snowpack in five sites spreaded over the Iberic peninsula covering a range of diverse climates and topographic conditions. We downscale the EURO-CORDEX meteorological forcings on a 250 m grid and force SnowModel to obtain spatialized snowpack simulations over the historical period (1970-2005) and a projection period (2005-2100) considering different RCP scenarios. The general decrease in snowpack impacts the hydrological cycle of the basins but is modulated by the varying climatic conditions between the study sites.