



Climate trends in Tyrol and Styria (Austria) during the last decades

Philipp Schajer, Florian Ortner, Florian Hanzer, Thomas Marke, and Ulrich Strasser

Department of Geography and Regional Science, University of Graz, Graz, Austria (philipp.schajer@aon.at)

Tyrol and Styria are provinces with a large natural climate variability, since there are large lowland areas and high Alpine mountains in close distance. Both are located in Central Europe and characterized by continental climate, i.e. hot summers and cold winters with continuous snow coverage. In recent decades, climate change is reflected in these regions by significant trends of the observed meteorological variables. For our investigation, a number of climate stations in each of the two provinces has been selected to mostly represent the whole variety of different landscape types. To examine the climatic trends, several types of time series are available. At some sites, such as Innsbruck and Graz, there is data going back to the middle of the 19th century. But at the most sites, the records started just twenty or thirty years ago. Based on these data (temperature, precipitation and snow depth) it is examined whether and how the climate has changed in the last decades in Tyrol and Styria.

These studies are part of CC-Snow, a project that deals with the effects of climatic change on ski resorts and the related socio-economic impacts.