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Climate change over Venetia (north-east Italy)

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This study considers trends and variability of minimum/maximum daily temperature and cumulated precipitation over the Venetian region, located in the North-eastern Italy, in the present climate (1951-2000) and in the future climate (2021-2050) under A1B scenario. Data for the analysis of daily precipitation and temperature are provided by ECA&D (http://eca.knmi.nl/ hosted at Netherland Royal meteorological institute) and ENSEMBLES projects (http://www.ensembles-eu.org/). In the second half of 20th century observational and model data agree detecting a comparable increase of daily minimum/maximum temperature while no overall significant precipitation trend has been detected. For the period 2021-2050 models show an increased daily minimum /maximum temperature (about 1.5 oC at annual scale with respect to 1961-90) larger over the Alps than along the coast. Future climate simulations show a reduction of precipitation along the northern Adriatic coast and an increase over the Alps.