A high resolution climate change dataset for the Portuguese Mainland

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In the ambit of CLICURB project, the Laboratory of Atmospheric Physics of the CESAM has produced a set of high resolution (9 x 9 km) climate simulations for the Portuguese mainland. The simulations were performed with the regional Weather Research and Forecasting (WRF) model forced by the global (coarser: 1.9º x 1.9º) climate change simulations performed with the MPI-ESM-LR model, and available from http://cera-www.dkrz.de/CERA/. Three 20-year periods were simulated (historic: 1986-2005, Mid-term period: 2046-2065, and Long-term period: 2081-2100) according to the RCP8.5 IPCC emission scenario. The climate variables were recorded at a time step of three hours, in the first 15 years of each period, and at a time interval of 1 hour in the last 5 years.

The main aim of this communication will be to present the high resolution climate change dataset, namely, the availability of data for other users and a set of climate change indices for temperature, precipitation and wind. Usually, these are requested indices by end users of climate products.

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