

Oral.1: **15:30-15:45. Highlight findings from the WCRP CORDEX Flagship Pilot Study on Convection over Europe and Mediterranean (FPSCONV)**

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Abstract

For the past five years, dedicated teams of climate scientists have worked to build and analyze an ambitious multi-model ensemble of the present and future climate over the greater Alpine region at convection permitting scale. In this, the final year of the project, two important milestones will be reached. The first is that the data from the simulations will be released to the public. Interest in these simulations has been high and we look forward to others investigating the vast array of questions that can be addressed with such a dataset. The second milestone is a special issue in *Climate Dynamics* that represents the culmination of the scientific work of the FPSCONV team. This talk will focus the latter and presents the highlights from the special issue. These include but are not limited to: fine scale modulation of extreme heat waves; shifting convective and orographic precipitation intensities; feature tracking of present and future mesoscale storms; scale dependencies of climate change signals; higher confidence in future extreme rainfall projections at cp-scales. We also present the legacy of the project and our perspective on the future prospects of such endeavours. As the demands for robust adaptation planning increase the need for actionable fine scale climate information increases in proportion. Studies such as FPSCONV have important contributions to make but also face serious challenges that can hinder their effectiveness.