



## **Configuration and improvement of a high resolution MM5 model in Catalonia (NE Spain)**

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The MM5 model has been running in the Meteorological Service of Catalonia for several years using a 36-12 Km nested configuration. In order to obtain meteorological fields suitable to run an air quality model, a new nested configuration at 4 km resolution has been performed. The aim of this poster is to analyze and quantify the improvements achieved in surface variables, specially wind, using this new higher resolution configuration. Several parametrizations have been tested in order to know the best configuration of soil, planetary boundary layer, microphysics and convection for the region of interest. In addition CORINE landuses have been also tested.