

## PROJECT INFORMATION

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**Project title:** ÉCLAIRE IP [Effects of Climate Change on Air Pollution and Response Strategies for European Ecosystems]

**Project ID:** 65

**Contact person:** Mark R. Theobald (mark.theobald@ciemat.es)

## PROJECT DESCRIPTION

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Within Work Package 8 (Assessing local and regional variation) of the project, CIEMAT is leading the development a sub-grid approach that can be incorporated into the EMEP MSC-W chemical transport model to provide high spatial resolution (1 km x 1 km) predictions of air pollutant concentration and deposition rates within each 50 km x 50 km grid square of the EMEP model. In order to be able to evaluate this sub-grid approach we plan to compare the model predictions of atmospheric concentrations and deposition rates with measurement data from European networks for two test study areas (Scotland and the Netherlands) for one target year (2008).

### Analysis methods

The analysis methods used will be similar for both projects. The models' predictions of atmospheric concentrations and deposition rates will be compared statistically with the available measurement data for the study periods and domains. The statistical analysis will include the calculation of model performance indicators such as Mean Bias, Root Mean Square Error, Correlation Coefficients, Mean Fractional Error, etc. in order to assess the performance of individual models as well as compare model performance.