

## Climate Chemistry Interactions over the Mediterranean Basin, Update from ChArMEx WP7

Fabien Solmon (1), Laaziz El Amraoui (2), Marc Mallet (2), Nellie Elguindi (1), Pierre Nabat (2), and Matthias Beckman (3)

(1) LA/CNRS, (2) meteo france, (3) LISA/CNRS

The Mediterranean basin is located at the crossroads of air masses carrying gas phase species such as ozone and precursors, as well as natural and anthropogenic aerosol particles. These species contribute to regional pollution and can have important effects on radiative budget, regional climate and ecosystems. Recent studies focusing on climate change impact on atmospheric chemistry outline the large uncertainty of projections over the Mediterranean regions. In this context the MISTRALS-ChArMex WP7 together with the Med-CORDEX Aerosol Flagship Pilot Study aim at building a model inter-comparison exercise based on ensemble projections of regional climate and chemistry transport models. A key question to be addressed in this context is : How well can we characterize future changes in ozone and aerosol cycle over the Mediterranean basin and how to improve the confidence level of projections ? The presentation will focus on the development of simulation strategies involving several research groups, and will give some preliminary results as well as relevant information to join the initiative.