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Assessment of climate change for the Mediterranean basin with a regional coupled model

L. Li, A. Casado, and I. Musat
CNRS, LMD, Paris, France (li@lmd.jussieu.fr)

A regional air-sea coupled model is used to assess the climate change for the Mediterranean basin under IPCC-A1B scenario. The model is composed of LMDZ-med for the atmospheric component, and of Nemo-Med8 for the oceanic component. The coupling is realized using the OASIS coupler. The whole coupled system is driven by the outputs of a global coupled model, run under the IPCC A1B conditions. The presented simulation covers 100 years, from 1951 to 2050. With an enhanced spatial resolution for the Mediterranean region (about 35 km), this coupled scenario run can provide driving conditions for other impact-oriented studies. The emphasize of the presentation is on the added-values of the regional model compared to the global coarse-resolution model.