

CLIMATE CHANGE SCENARIOS FOR SPAIN

The aim of the ESCENA Project is to generate high resolution climate change scenarios for the Spain with the help of four different regional climate models over a domain that includes the Iberian península as well as the Canarias islands.

Model setup:

- The domain includes the Iberian Peninsula, part of Europe, part of the Mediterranean sea, part of Africa and an Atlantic box that contains the Spanish Canarian and Balearic Islands, with a 0.22 degrees resolution, giving a domain of size 181×201 .
- The vertical resolution is of 31 levels

The following runs will be carried out:

- Present climate simulation forced by ERA Interim reanalysis for the 1989-2009 period
- Future climate driven by the ECHAM5 r2, scenario A1B, for the 1950-2050 period
- Future climate driven by the ECHAM5 r2, scenario A2, for the 2000-2050 period
- Future climate driven by the ECHAM5 r2, scenario B1, for the 2000-2050 period