A 50-year precipitation analysis over Europe at 5.5km within the UERRA project

Eric Bazile (1), Rachid Abida (1), Cornel Soci (2), Antoine Verrelle (1), Camille Szczypta (1), and Patrick Le Moigne (1)

(1) Météo-France/CNRS CNRM-UMR3589, Toulouse, France (eric.bazile@meteo.fr), (2) ECMWF, Shinfield Park Reading RG2 9AX UNITED KINGDOM

The UERRA project is a 4-year project (2014-2017) financed by the European Union under its 7th Framework Programme SPACE. One of its main objectives is to provide a 50-year reanalysis dataset of surface essential climate variables (ECV) at 5.5km grid at European scale, together with, as much as possible, uncertainty estimates.

One of the ECV is the precipitation and this variable is of essential interest in weather forecasting, climate study and to "drive" hydrological model for water management, or agrometeorology.
After a brief description of the method used for the precipitation analysis (Soci et al. 2016)during this project, the preliminary results will be presented. The estimation of uncertainties will be also discussed associated with the problem of the evolution of the observation density network and its impact on the long term series.

Additional information about the UERRA project can be found at http://www.uerra.eu