EMS Annual Meeting Abstracts
Vol. 8, EMS2011-458-1, 2011
11th EMS / 10th ECAM

Forecasting the weather
- ensemble techniques
in probabilistic weather prediction

The Climate of the Carpathian Region - Climate Atlas of the region

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Joint Research Centre (Ispra) published a tender call in June 2010. A consortium of 10 organisations from 9 countries covering the area of the region won the tender and started its work by 22 December 2010. The main aim of the project is to improve and extend the climate data basis in the Carpathian Region for applied regional climatological studies such as a Climate Atlas and drought monitoring. The project will investigate the temporal and spatial structure of the climate in the Carpathian Mountains and the Carpathian basin with unified or at least directly comparable methods. Currently, there is no valid description of the climate of the Carpathian Region available.
The project will improve the digital data basis at national meteorological services in the Carpathian Region, and will facilitate access to derived gridded climatological datasets by the wider scientific community.
The project contains three modules with the following tasks:
Module 1: Improve the availability and accessibility of a homogeneous and spatially representative time series of climatological data for the Carpathian Region through data rescue, quality control, and data homogenisation.
Module 2: Ensure Carpathian countries data harmonisation with special emphasis on across-country harmonisation and production of gridded climatologies per country.
Module 3: Develop a Climate Atlas as a basis for climate assessment and further applied climatological studies as well as for drought monitoring in the Carpathian Region.
The first steps (work in progress Module 1) are the following:
- Data rescue and digitisation of analogue datasets of climate data
- Quality checking including data gaps elimination of existing climate time series
- Homogenisation of existing climate time series
The final outcome will be high quality climate in-situ time series and 10x10 km grids per country, including a metadata catalogue documenting the existing homogenised datasets. Quality checking and homogenisation procedures, together with corresponding metadata of the improved datasets, however, are required to be published without limitation.