



## Establishing a European Gridded climatology by merging national data sets

O.E. Tveito and the EUMETGRID Team

Norwegian Meteorological Institute, Climatology Division, Oslo, Norway (ole.einar.tveito@met.no)

The EUMETGRID programme aims to establish access to high quality gridded data sets of several essential climate variables and related products and services covering all of Europe based on national data products.

The EUMETGRID concept is based on a distributed data approach building a system based on nationally tiled gridded datasets provided and hosted by the individual NMHSs. This decentralized approach will ensure access to the current best available datasets, based on full coverage of nationally available observations, the most up to date data quality, the best knowledge about local and regional climate conditions, and taking account of national ownerships that are crucial for the national commitments to the programme.

The gridded climate data produced by the individual NMHSs and other data centres differs considerably both with respect to the spatial interpolation methods and explanatory variables applied. Additionally has each data provider usually adopted national standards concerning grid references and grid projections. A challenge for EUMETGRID is therefore to be able to provide a common European reference for gridded climate data. This study presents the first study to merge national gridded data into a joint European data set.