

October 2015

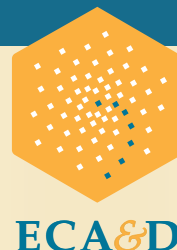
More information

Project team: eca@knmi.nl



Project website: <http://www.ecad.eu>

Initiated by the European Climate Support Network of EUMETNET



Goal

ECA&D offers science-based operational services for assessing observed changes in climate extremes in Europe. These services rely on high-quality observational datasets provided by the participants.

Participants

66 National Meteorological and Hydrological Services, observatories and universities from Europe and the Mediterranean.

Coordination

Royal Netherlands Meteorological Institute (KNMI).

Drivers

ECA&D was initiated by the European Climate Support Network of GIE-EUMETNET and has been designated as Regional Climate Centre on climate data for WMO Region VI (Europe). ECA&D has been further developed in the EU-projects ENSEMBLES, MILLENNIUM, EURO4M, UERRA and EUPORIAS.

Global Embedding

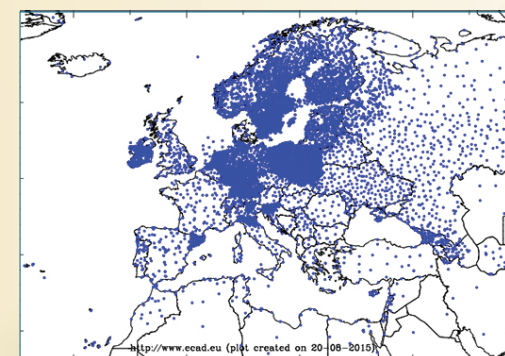
ECA&D is part of the International Climate Assessment & Dataset (ICA&D) which is part of a pilot project of the Global Framework for Climate Services (GFCs). As such, it is linked with its Southeast Asian counterpart SACA&D (sacad.database.bmkg.go.id), Latin American counterpart LACA&D (lacad.ciifen.org) and West African counterpart WACA&D.

ECA&D services comprise:

- data gathering (long-term high quality daily observational series from meteorological stations)
- archiving and storage in a centralized relational database
- quality control and homogeneity checks
- analysis (calculation of indices (station-based and gridded) particularly related to climate extremes)

ECA&D products include:

- daily dataset built up from 41600 quality controlled series of 12 essential climate variables (including temperature and precipitation) observed at 10388 meteorological stations in 62 countries (77% publicly available)
- meta information on station and time series homogeneity
- maps and plots for changes in extremes in the form of trends, anomalies, climatologies and return values for 75 indices
- E-OBS version 12.0 daily gridded observational dataset (1950-2015) of precipitation, temperature and sea level pressure,
- monthly updates of stations and gridded datasets



ECA&D Station Network