

## ECA&D (European Climate Assessment & Dataset)

ECA&D contains daily series of observations for 12 elements at 7847 meteorological stations throughout Europe and the Mediterranean provided by National Meteorological Institutes and universities. 61% of these series is public, which means downloadable from <http://www.ecad.eu> for non-commercial research.

The available elements are minimum, mean and maximum temperature, precipitation amount, sea level pressure, cloud cover, sunshine duration, snow depth, relative humidity, wind speed, maximum wind gust and wind direction.

From the daily series, indices of extremes are calculated for which trends, anomalies and climatologies are available. Figure 1 shows the available precipitation series and Figure 2 shows an example of a trend map for mean temperature. (Status of April 2013)

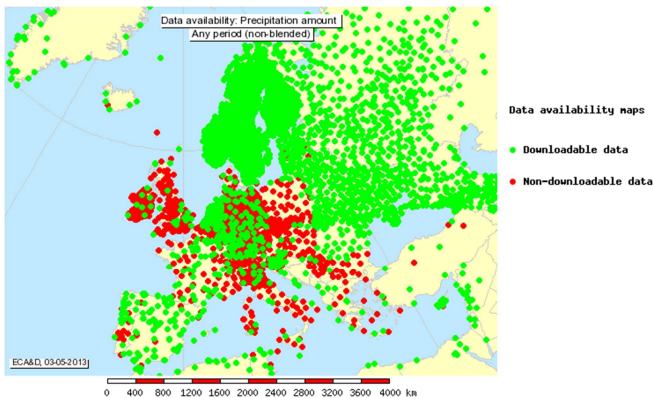


Figure 1: Available precipitation stations

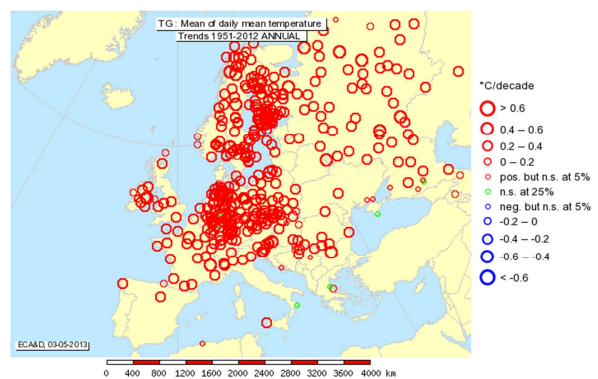


Figure 2: Trend map for annual mean temperature over the period 1951-2012

### Infobox

#### SPECIFICATIONS

##### Output data sets

Temperature (minimum, mean, maximum)  
 Precipitation amount  
 Sea level pressure  
 Snow depth  
 Relative humidity  
 Sunshine duration  
 Cloud cover  
 Wind speed  
 Maximum wind gust  
 Wind direction

##### Data

Station time series  
 Format: ascii

##### Availability

Area: Europe + Middle East + Northern Africa  
 Freely available for non-commercial and educational research

#### Validation

Basic quality control and homogeneity checks are performed. Flags are attached to the daily values.

#### Outlook

The dataset is continuously expanded and new data and stations are included regularly. The dataset is updated monthly

#### Description and Validation

ECA&D Project Team

##### Contact

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