

E-OBS

E-OBS is a daily gridded observational dataset for precipitation, minimum, mean and maximum temperature and sea level pressure in Europe based on ECA&D station information. The full version 8 dataset covers the period 1950-01-01 until 2012-12-31. It has originally been developed as part of the ENSEMBLES project (EU-FP6) and is now maintained and elaborated as part of the EURO4M project (EU-FP7).

Data is made available on a 0.25 and 0.5° regular lat-lon grid, as well as on a 0.22 and 0.44° rotated pole grid, with the north pole at 39.25N, 162W. The regular grid is the same as the monthly CRU data grids available from the Climatic Research Unit. The rotated grid is the same as used in many ENSEMBLES Regional Climate Models. Besides 'best estimate' values, separate files are provided containing daily standard errors and elevation. Figure 1 shows the total precipitation amount in December 2011 and Figure 2 gives the mean temperature on 30 June 2011.

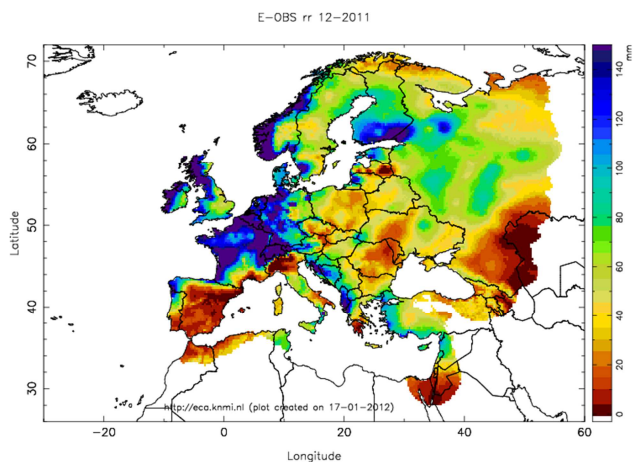


Figure 1: Precipitation amount for December 2011

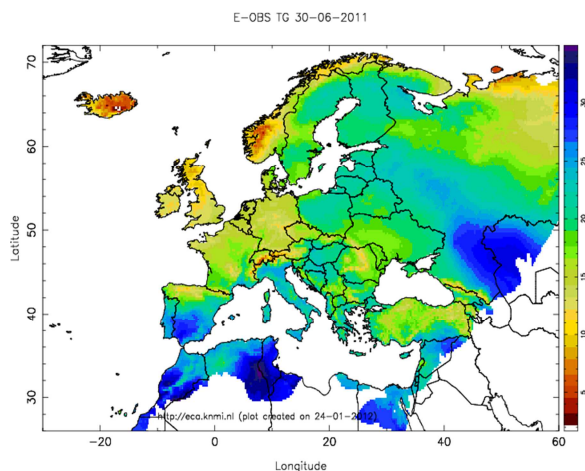


Figure 2: Mean temperature on 30 June 2011

Infobox

SPECIFICATIONS

Output data sets

Temperature (minimum, mean and maximum)
Precipitation amount
Sea level pressure

Data

Spatial resolution:
Regular grid:
0.25° x 0.25° and 0.50° x 0.50°
Rotate pole grid:
0.22° x 0.22° and 0.44° x 0.44°
Temporal resolution: Daily
Format: NetCDF

Availability

Area: Europe + Middle East + Northern Africa
Period (version 8):
1950-01-01 to 2012-12-31
Freely available for non-commercial and educational research

Validation

The input daily time series are quality controlled.

Outlook

E-OBS is fully updated twice a year. Preliminary files for the running year are updated monthly which are replaced by the full version, when available.

Description and Validation

ECA&D Project Team

Contact

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