

CRU / UEA Data Products

The dataset is being updated on a 6-monthly schedule by the British Atmospheric Data Centre (BADC) in the UK, using software provided by CRU. The updates occur in the spring (to complete the previous year) and in the autumn (to complete the grids for the first six months of the year). The delay behind real time is to ensure that one of the principal sources of input data (Monthly Climatic Data for World, MCDW, produced by NCDC) is available. This update produces all the gridded datasets discussed in Harris et al. (2014). The scPDSI dataset is currently updated by KNMI once the precipitation and PET grids are available. scPDSI has recently been discussed by van der Schrier et al. (2013) and Trenberth et al. (2014).

Figure 1 shows the mean diurnal temperature range in July 2010; Figure 2 gives the multi-annual mean potential evapotranspiration for July.

Harris, I., Jones, P.D., Osborn, T.J. and Lister, D.H., 2014: Updated high-resolution monthly grids of monthly climatic observations: the CRU TS 3.10 dataset. *Int. J. Climatol.*, 34, 623-642, DOI:10.1002/joc.3711.

Trenberth, K., Dai, A., van der Schrier, G., Jones, P.D., Barichivich, J., Briffa, K.R. and Sheffield, J., 2014: Global Warming and changes in drought. *Nature Climate Change*, 4, 17-22, doi:10.1038/nclimate2067.

van der Schrier, G., Barichivich, J, Briffa, K.R. and Jones, P.D., 2013: A sc-PDSI-based global dataset of dry and wet spells. *J. Geophys. Res.* 118, 4025-4048, doi:10.1002/jgrd.50335.

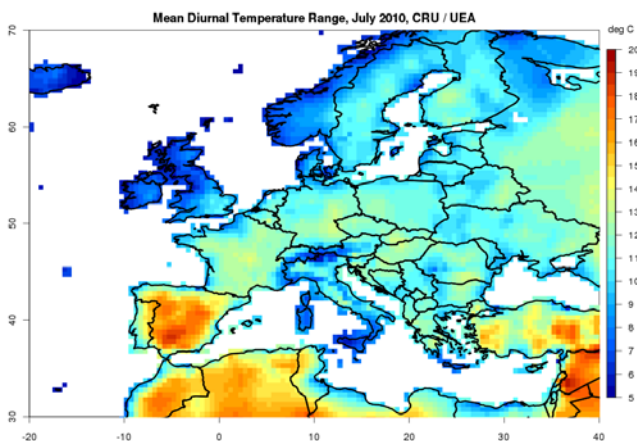


Figure 1: Mean diurnal temperature range in July 2010

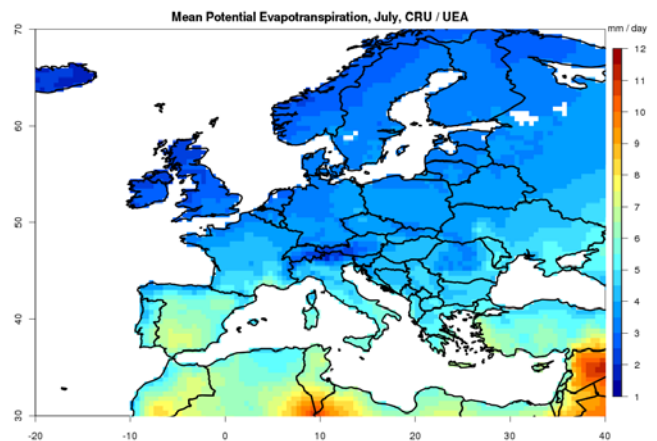


Figure 2: Mean potential evapotranspiration in July

Infobox**SPECIFICATIONS****Output data sets**

Temperature incl. range
Precipitation
Sunshine
Potential evapotranspiration
Palmer Drought Severity Index

Data

Spatial resolution:
0.5° x 0.5° regular grid
Temporal resolution: Monthly
Format: ASCII and NetCDF

Availability

Area: Europe + Global
Period::
1901-01-01 to 2011-12-31
Freely available for non-commercial
and educational research

Validation

The input data are quality controlled.

Outlook

Data Sets are regularly updated.

Description and Validation

CRU Project Team

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