

## DATA SET DESCRIPTION

### Gridded daily mean near-surface (10 m) wind speed for Europe (project DecReg/MiKlip)

#### Version v001 superseded version

**Cite data set as:** Brinckmann, S., Bissolli, P., Krähenmann, S.: Gridded daily mean near-surface (10 m) wind speed for Europe (project DecReg/MiKlip). version v001, 2015, DWD Climate Data Center (CDC), DOI:10.5676/DWD\_CDC/DECREG0110v1.

#### INTENT OF THE DATASET

This describes the freely available data of the DWD Climate Data Centre which were produced by project DecReg/MiKlip. The aim was to generate a dataset for validation of decadal regional climate prediction. As there is an error in the netcdf-headers of v001, this version is superseded by corrected version v002.

#### POINT OF CONTACT

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#### DATA DESCRIPTION

<b>Spatial coverage</b>	Europe (CORDEX domain)
<b>Temporal coverage</b>	01.01.2001 - 31.12.2010
<b>Spatial resolution</b>	0.044 degree, i.e., approximately 5 km x 5 km
<b>Temporal resolution</b>	daily
<b>Projection</b>	rotated regular grid, virtual North Pole at 39.25 N, 162.00 W (rotated coordinates)
<b>Format(s)</b>	netCDF
<b>Parameters</b>	Surface wind speed [m/s] relating to near-surface (10m) is given in files <code>sfcWind_*.nc</code> .
<b>Uncertainties</b>	Interpolation uncertainty is estimated by means of the kriging variance and regression uncertainties (see Brinckmann et al., 2015). Resulting inter-quartile ranges (IQR) are provided in separate files named <code>sfcWind_*.nc</code> . Depending on region and season the 1-sigma standard deviation varies between 0.6 and 2.0 m/s (estimated using the 5 % and 95 % quantile of all gridded IQR data in 2010).

#### DATA ORIGIN

Origin of the used station data is the MIRAKEL database of the Deutscher Wetterdienst (SYNOP), supplemented by station data from the ECA&D database ([www.ecad.eu](http://www.ecad.eu)). We acknowledge the data providers in the ECA&D project: Klein Tank, A.M.G. and Coauthors, 2002. Data and metadata available at <http://www.ecad.eu>.

## **VALIDATION AND UNCERTAINTY ESTIMATE**

See Brinckmann et al., 2015.

## **CONSIDERATIONS FOR APPLICATIONS**

See Brinckmann et al., 2015.

## **REFERENCES**

Brinckmann, S., Krähenmann, S., and Bissolli, P.: High-resolution daily gridded datasets of air temperature and wind speed for Europe, Earth Syst. Sci. Data Discuss., 8, 649-702, doi:10.5194/essdd-8-649-2015, 2015.

Klein Tank, A.M.G. and Coauthors, 2002. Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. Int. J. of Climatol., 22, 1441-1453.

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## **REVISION HISTORY**

This document is maintained by the section Regional Climate Monitoring of DWD, last edited 21.12.2015.