

## DATA SET DESCRIPTION

**Recent monthly degree hours for Germany, quality control not completed yet**

### Version recent

**Cite data set as:** DWD Climate Data Center (CDC): Recent monthly degree hours for Germany, quality control not completed yet, version recent, last accessed: <date>.

### INTENT OF THE DATASET

This document describes the freely available monthly cooling degree hours referring to the reversed accumulated temperature differences of ISO 15927, part 6; calculated from station data (hourly air temperature) of the DWD Climate Data Center (CDC).

### POINT OF CONTACT

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### DATA DESCRIPTION

<b>Spatial coverage</b>	stations in Germany																
<b>Temporal coverage</b>	01.01.2017 - end of previous year'																
<b>Temporal resolution</b>	monthly																
<b>Format(s)</b>	One file per months, rows correspond to stations.																
<b>Parameters</b>	The parameters of the degree day list: <table><tr><td>ID</td><td>Station ID</td></tr><tr><td>geogr. Breite</td><td>latitude</td></tr><tr><td>geogr. Laenge</td><td>longitude</td></tr><tr><td>Station</td><td>name of the station</td></tr><tr><td>Monat</td><td>Year and month</td></tr><tr><td>Anzahl Tage</td><td>number of available values of mean daily air temperatures per month</td></tr><tr><td>Monatsgradtage</td><td>sum of degree days over a month Kelvin * day</td></tr><tr><td>Anzahl Heiztage</td><td>number of days with daily mean air temperature less than 15 degree Celsius</td></tr></table>	ID	Station ID	geogr. Breite	latitude	geogr. Laenge	longitude	Station	name of the station	Monat	Year and month	Anzahl Tage	number of available values of mean daily air temperatures per month	Monatsgradtage	sum of degree days over a month Kelvin * day	Anzahl Heiztage	number of days with daily mean air temperature less than 15 degree Celsius
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<b>Uncertainties</b>	The stations are nowadays selected and operated according to WMO guidelines.																

### DATA ORIGIN

The monthly degree days (VDI 3807 / Part 1: Characteristic consumption values for buildings - Fundamentals) are calculated for each month from daily means of air temperature (degree Celsius), and only in the case the all daily values are available. If daily temperature values at a station are missing, no monthly degree days are calculated. This climate data are from the station network of DWD, operationally collected in the central MIRAKEL data base and archived, see Behrendt et al., 2011, and Kaspar et al., 2013. For details

on current measurement and observation procedures see VuB 3 Beobachterhandbuch (DWD, 2014a), VuB 3 Technikerhandbuch (DWD, 2014b) and VuB 2 Wetterschlüsselhandbuch (DWD, 2013).

## VALIDATION AND UNCERTAINTY ESTIMATE

The quality of the monthly degree days depends on the quality of daily values of air temperature.

## REFERENCES

Behrendt, J., et al.: Beschreibung der Datenbasis des NKDZ. Version 3.5, Offenbach, 15.02.2011.

DWD Vorschriften und Betriebsunterlagen Nr. 3 (VuB 3), Beobachterhandbuch (BHB) für Wettermeldestellen des synoptisch-klimatologischen Mess- und Beobachtungsnetzes, März 2014a .

DWD Vorschriften und Betriebsunterlagen Nr. 3 (VuB 3), Technikerhandbuch (THB) für Wettermeldestellen des synoptisch-klimatologischen Mess- und Beobachtungsnetzes, März 2014b.

DWD Vorschriften und Betriebsunterlagen Nr. 2 (VuB 2), Wetterschlüsselhandbuch Band D, Nov 2013.

Kaspar, F., et al.: Monitoring of climate change in Germany – data, products and services of Germany's National Climate Data Centre. Adv. Sci. Res., 10, doi:10.5194/asr-10-99-2013, 99–106, 2013.

Spengler, R.: The new Quality Control- and Monitoring System of the Deutscher Wetterdienst. Proceedings of the WMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation, Bratislava, 2002.

VDI 3807, Part 1 (2013): Characteristic consumption valuse for buildings, Fundamentals. Verein Deutscher Ingeniuere. Beuth-Verlag. Berlin

## COPYRIGHT

The instructions in [ftp://ftp-cdc.dwd.de/pub/CDC/Terms\\_of\\_use.pdf](ftp://ftp-cdc.dwd.de/pub/CDC/Terms_of_use.pdf) should be followed. The DWD website provides comprehensive copyright information.

## REVISION HISTORY

The data in this directory are updated monthly. This document is maintained by the DWD Regional Climate Office Essen, last edited on 19.12.2018.