

DATA SET DESCRIPTION

Historical dataset: Monthly mean air temperature for stations worldwide

Version qcV002

Cite data set as: DWD Climate Data Center: Historical dataset: Monthly mean air temperature for stations worldwide, version qcV002, 2017.

INTENT OF THE DATASET

Observations had been collected from worldwide CLIMAT stations, and had originally been provided by the respective National Weather Services. The data comprise the full time series as far as available in the database of DWD, and is quality controlled by DWD for climatological and climate related applications.

POINT OF CONTACT

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DATA DESCRIPTION

Spatial coverage global

Temporal coverage 01.01.1949 - 31.12.2014

Temporal resolution monthly

Format(s) The names of the data sets start with the station number, followed by the start (year, month) and the end of the data set (e.g. 01001_200801_201412 means station 01001 = Jan Mayen from January 2008 to December 2014). In the data set the year is followed by the 12 monthly means. For information about station numbers, stations and their location use the station list: https://opendata.dwd.de/climate_environment/CDC/help/stations_list_CLIMAT_data.txt

Parameters The monthly mean temperature (= mean daily temperature for a month) is given for each month of the year, each row covers a year.

Jahr	year
Jan	mean daily temperature in January °C
Feb	mean daily temperature in February °C
Mrz	mean daily temperature in March °C
Apr	mean daily temperature in April °C
Mai	mean daily temperature in May °C
Jun	mean daily temperature in June °C
Jul	mean daily temperature in July °C
Aug	mean daily temperature in August °C
Sep	mean daily temperature in September °C
Okt	mean daily temperature in October °C
Nov	mean daily temperature in November °C
Dez	mean daily temperature in December °C

Uncertainties are caused by:
- differences in the method to determine mean monthly temperatures
Quality information not available

DATA ORIGIN

National Meteorological Services

VALIDATION AND UNCERTAINTY ESTIMATE

The quality control includes: Check of internal consistency of the data in a report, check against climatological thresholds, comparison with values generated from the synoptic network as well as an environmental check.

CONSIDERATIONS FOR APPLICATIONS

This are data which span the historical time series, and where the full quality control had been completed. For extension to more recent years, see directories ../recent/.

REFERENCES

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REVISION HISTORY

The data are updated in approximately annual intervals. This document is maintained by the Marine Climate Monitoring Division of DWD, last edited 19.12.2018.