

DATA SET DESCRIPTION

Homogenized historical radiosonde measurements in Germany (project MOSQUITO /MiKlip)

Version v001

Cite data set as: Pattantyus-Abraham, M.: Homogenized historical radiosonde measurements in Germany (project MOSQUITO /MiKlip). version v001, 2014, DWD Climate Data Center (CDC), DOI:10.5676/DWD_CDC/PAST-RS-H.

INTENT OF THE DATASET

This describes the freely available data of the DWD Climate Data Center which are the homogenized data produced by project MOSQUITO/MiKlip, in order to generate a dataset for decadal climate model validation.

POINT OF CONTACT

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DATA DESCRIPTION

Spatial coverage	Germany
Temporal coverage	01.01.1950 - 31.10.2014
Spatial resolution	The dataset consists of 12 stations: Schleswig, Greifswald, Emden, Hannover, Lindenberg, Essen, Dresden, Meiningen, Idar/Oberstein, Stuttgart, Munich and Hohenpeissenberg, details see readme_adjusted.txt .
Temporal resolution	monthly
Format(s)	ASCII, see readme_adjusted.txt
Parameters	air temperature [K]
Uncertainties	0.05 - 0.5 K, the latter for stratosphere

DATA ORIGIN

Project output based on the raw data (https://opendata.dwd.de/climate_environment/CDC/observations_germany/radiosondes/monthly/air_temperature/raw/project_PASt/).

VALIDATION AND UNCERTAINTY ESTIMATE

The quality was assessed by comparing against the RICH and HadAT2 data sets and the MSU measurements, see Pattantyus-Abraham and Steinbrecht, 2015.

CONSIDERATIONS FOR APPLICATIONS

See Pattantyus-Abraham and Steinbrecht, 2015.

REFERENCES

Pattantyus-Abraham, M. and W. Steinbrecht: Temperature trends over Germany from homogenized radiosonde data. Journal of Climate, 2015 (DOI: 10.1175/JCLI-D-14-00814.1).

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REVISION HISTORY

The data are output of a project and not subject to change. This document is maintained by the Meteorological Observatory Hohenpeissenberg (MOHP) of DWD, last edited 19.12.2018.