

## DATA SET DESCRIPTION

### *Hourly station observations of index whether precipitation has fallen for Germany*

#### Version v19.3 & recent

**Cite data set as:** DWD Climate Data Center (CDC): Hourly station observations of index whether precipitation has fallen for Germany, version v19.3, last accessed: <date>.

#### INTENT OF THE DATASET

This data are from DWD stations operated for climatological and climate related applications (partner stations not included).

#### POINT OF CONTACT

Deutscher Wetterdienst  
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#### DATA DESCRIPTION

<b>Spatial coverage</b>	Germany		
<b>Temporal coverage</b>	1995-09-01 until - yesterday		
<b>Temporal resolution</b>	hourly		
<b>Units</b>	GEOM	Die Geometrie des Spatial Data Objektes (SDO)	OGC WKT
	STATION_ID	ID des Spatial Data Objektes (SDO), so wie es beim DWD definiert ist, z.B. StationsId, ..	
	STATION_NAME	Name des Spatial Data Objektes (SDO), so wie es beim DWD definiert ist	
	ZEITSTEMPEL	Referenz Datum/Zeit des Wertes (!= Messzeit), in der Regel der Startzeitpunkt des Referenzintervalls.	YYYY-MM-DD hh:mi:ss(.ff6)
	ZEITINTERVALL WERT	Länge des Referenzintervalls Stündliche Stationsmessungen des Indikators ob Niederschlag gefallen	ISO_8601#Zeitspannen numerical code
	EINHEIT QUALITAET_BYTE	Einheit in der die Werte vorliegen QUALITAET_BYTE (QB) zeigt an, ob der Wert beanstandet und/oder korrigiert wurde (siehe Qualitaet).	numerical code -999,0..7
	QUALITAET_NIVEAU	QUALITAET_NIVEAU (QN) beschreibt das Verfahren der Qualitätsprüfung und bezieht sich auf einen vollständigen Satz von Parametern zu einem bestimmten Termin. (siehe Qualitaet).	1..10

## Quality information

The QUALITAETS\_BYTE (QB) denotes whether the value was objected to and/or corrected. The QUALITAETS\_NIVEAU (QN) shows the quality control procedure applied for a data report (of several parameters) for a certain reporting time. Explanation for QB:  
QB=0 denotes not flagged;  
QB=1 had no objections (either checked and not objected, or not checked and not objected, this can be interpreted only when considering QN);  
QB=2 corrected;  
QB=3 confirmed with objection rejected;  
QB=4 added or calculated;  
QB=5 objected;  
QB=6 only formally checked;  
QB=7 formal objection;  
QB=-999 quality flag does not exist.  
Explanation for QN:  
QN=1 only formal control;  
QN=2 controlled with individually defined criteria;  
QN=3 automatic control and correction;  
QN=5 historic, subjective procedures;  
QN=7 second control done, before correction;  
QN=8 quality control outside ROUTINE;  
QN=9 not all parameters corrected;  
QN=10 quality control finished, all corrections finished.  
Data before and including 1980 can reach as best quality check level QN=5. Data after 1980 can reach QN=10 as best quality check level.

## DATA ORIGIN

These climate data are from the station networks of Deutschen Wetterdienst which are regularly updated with recent data, and with recovered historical data. From 1997 onwards, the data are 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). Note that when going back to historical times, guidelines on observation procedure, instruments and observation times were issued by the authority in charge (see, e.g., Freydank, 2014), and might be incompletely recorded in the metadata. As explained in Kaspar et al., 2013 in the early years numerous meteorological agencies were active in the area of today's Germany. After establishment of the der International Meteorological Organization (IMO) in 1873, the various standards were gradually harmonized, resulting in a single standard 1936. After 1945, the standards in East and West Germany developed differently, and were harmonized again after re-unification in 1990. Between the end of the nineties and 2009 many stations were changed from manual to automated.

## VALIDATION AND UNCERTAINTY ESTIMATE

## COPYRIGHT

The instructions in [https://opendata.dwd.de/climate\\_environment/CDC/Terms\\_of\\_use.pdf](https://opendata.dwd.de/climate_environment/CDC/Terms_of_use.pdf) should be followed. The DWD website provides comprehensive copyright information.

## REVISION HISTORY

This document is maintained by the Climate Data Centre of the DWD, last edited at 2019-07-25.