

2- controlled with individually defined criteria

DATA ORIGIN

These data are not compliant to the usual World Meteorological Organisation (WMO) standards for climate data because of their urban positioning, but they follow the guidance of WMO "Instruments and Observing Methods Report No.81: Initial guidance to obtain representative meteorological observations at urban sites" (Oke, 2006). The location of the urban climate stations was chosen according to the following criteria: (1) inner city location, no suburbia, (2) the point of measurement has to be typical for the respective district or quarter, (3) preferably in central location within a continuous building development, (4) no transition areas between quarters of varying characteristics, (5) surface area of the station should be representative of the surrounding environment (sealings, grass, gravel, etc.) (6) point of measurements should be chosen half of the typical local distance between houses, but not less than 5m distance to the next house. (7) location is not in parks and not below trees.

VALIDATION AND UNCERTAINTY ESTIMATE

The data quality control is not completed yet.

CONSIDERATIONS FOR APPLICATIONS

The Deutsche Wetterdienst recommends that users of urban climate data always consider the limited representativity and quality of the data in their usage and further analysis, and communication to third parties. Weather records for Germany are not determined from the station data located in urban surroundings given here, but instead from WMO compliant climate stations (located outside cities).

ADDITIONAL INFORMATION

Climate stations (non-urban) are provided in the directory https://opendata.dwd.de/climate_environment/CDC/observations_germany/climate/.

REFERENCES

Oke, T.R., Initial guidance to obtain representative meteorological observations at urban sites, WMO Instruments and observing methods report No. 81, WMO TD Nr. 1250, 2006.

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REVISION HISTORY

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