

Package ‘clidamonger’

February 14, 2024

Title Monthly Climate Data for Germany, Usable for Heating and Cooling Calculations

Description

This data package contains monthly climate data in Germany, it can be used for heating and cooling calculations (external temperature, heating / cooling days, solar radiation).

Version 1.1.0

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Encoding UTF-8

Depends R (>= 3.5.0)

BugReports <https://github.com/IWUGERMANY/clidamonger/issues>

URL <https://github.com/IWUGERMANY/clidamonger>

RoxygenNote 7.2.2

LazyData true

LazyDataCompression xz

NeedsCompilation no

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data.sol	<i>Data.Sol</i>
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Description

Average shortwave radiation on horizontal surfaces in W/m², listed by geographical coordinates for Germany = latitude and longitude distances 0.02°.

Usage

data.sol

Format

An object of class data.frame with 3153 rows and 460 columns.

data.ta.hd	<i>Data.TA.HD</i>
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Description

Per DWD climate station: average external air temperature in °C; for specific base temperatures: heating and cooling days, external air temperature during heating and during cooling days.

Usage

data.ta.hd

Format

An object of class tbl_df (inherits from tbl, data.frame) with 11651 rows and 460 columns.

list.station.ta	<i>List.Station.TA</i>
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Description

Provides the geographical coordinates for all DWD stations.

Usage

list.station.ta

Format

An object of class tbl_df (inherits from tbl, data.frame) with 831 rows and 10 columns.

tab.estim.sol.orient *Tab.Estim.Sol.Orient*

Description

Includes parameters for estimating the solar radiation for vertical and inclined surfaces on the basis of horizontal radiation data.

Usage

tab.estim.sol.orient

Format

An object of class data.frame with 33 rows and 13 columns.

tab.stationmapping *Tab.StationMapping*

Description

Assigns to all German postal codes the geographical coordinates and the three closest DWD weather stations.

Usage

tab.stationmapping

Format

An object of class data.frame with 16336 rows and 17 columns.

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