

Package: climabr (via r-universe)

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Title Interface for Accessing Weather Data from Climatempo

Version 0.1.0

Description Provides functions for downloading meteorological data from the CLIMATEMPO (<<https://www.climatempo.com.br/>>) web platform through web scraping, designed for ecological and environmental analyses.

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Encoding UTF-8

URL <https://github.com/jrz-s/climabr>

BugReports <https://github.com/jrz-s/climabr/issues>

Depends R (>= 3.5)

Imports dplyr, stringr, stringi, purrr, rvest, magrittr, rlang

LazyData true

Config/roxygen2/version 8.0.0

NeedsCompilation no

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climate_data	<i>Retrieve climatological data</i>
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Description

Retrieves monthly climatological data from Climatempo using flexible location inputs and automated web scraping.

Usage

```
climate_data(  
  region = NULL,  
  state = NULL,  
  city = NULL,  
  max_cities = 5,  
  delay = 1,  
  add_site = TRUE,  
  add_avg = TRUE  
)
```

Arguments

region	Character. Optional region name (e.g., "north", "northeast").
state	Character. State abbreviation or full name (e.g., "se", "sergipe").
city	Character. City name (partial or full; accent-insensitive).
max_cities	Numeric. Maximum number of locations allowed to prevent excessive requests. Default is 5.
delay	Numeric. Time delay in seconds between successive web requests. Default is 1.
add_site	Logical. If TRUE, adds a site identifier column to the output.
add_avg	Logical. If TRUE, computes monthly averages across locations (only when more than one location is selected).

Details

Main function to retrieve climate data

Value

A tibble containing monthly climatological variables, including minimum temperature (tmin), maximum temperature (tmax), and precipitation (precip).

Examples

```
climate_data(state = "se", city = "aracaju")
```

linksdataset	<i>Climate links dataset</i>
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Description

A dataset containing links and metadata for Brazilian municipalities

Usage

```
linksdataset
```

Format

A data frame with 5 variables:

id Location ID
region Region name
state State abbreviation
city_name City name
links Climatempo URL

search_locations	<i>Search locations</i>
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Description

Searches the internal location database using flexible matching for region, state, and city names.

Usage

```
search_locations(region = NULL, state = NULL, city = NULL)
```

Arguments

region	Character. Optional region name.
state	Character. State abbreviation or full name.
city	Character. City name (partial or full).

Details

Main function to retrieve search_locations

Value

A tibble containing matching locations and associated metadata, including region, state, city name, and data source links.

Examples

```
search_locations(state = "se", city = "arac")
```

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