Package 'predictsr'

July 10, 2025

Title Access the 'PREDICTS' Biodiversity Database

Version 0.1.0

Description Fetches the 'PREDICTS' database and relevant metadata from the Data
Portal at the Natural History Museum, London <https://data.nhm.ac.uk>. Data
were collated from over 400 existing spatial comparisons of local-scale
biodiversity exposed to different intensities and types of anthropogenic
pressures, from sites around the world. These data are described in Hudson
et al. (2013) <doi:10.1002/ece3.2579>.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports glue, httr2, jsonlite, logger

Suggests dplyr, knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

Depends R (>= 4.1.0)

Config/testthat/parallel true

VignetteBuilder knitr

URL https://biodiversity-futures-lab.github.io/predictsr/

NeedsCompilation no

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Repository CRAN

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GetColumnDescriptions   *Get a dataframe describing the columns in the PREDICTS database*
                          extract.

Description

Get a dataframe describing the columns in the PREDICTS database extract.

Usage

```
GetColumnDescriptions(...)
```

Arguments

```
...                     extra arguments passed to read.csv.
```

Value

The column descriptions in the format as a dataframe.

Examples

```
descriptions <- GetColumnDescriptions()
```

GetPredictsData   *Read the PREDICTS database into either a dataframe.*

Description

This returns the complete PREDICTS database extract from the latest release/s. The data were collected as part of the PREDICTS project - Projecting Responses of Ecological Diversity In Changing Terrestrial Systems, and comprise of two releases. The first was in 2016, and the second in 2022. This function accesses the 2016 and/or 2022 release.

Usage

```
GetPredictsData(extract = c(2016, 2022))
```

Arguments

```
extract                 numeric, year/s corresponding to PREDICTS database releases to download.
                        Options are 2016 or 2022. Defaults to c(2016, 2022) - the whole dataset.
```

Value

A dataframe containing the v1.1 PREDICTS database extract/s.

Examples

```
predicts <- GetPredictsData()
predicts_2016 <- GetPredictsData(extract = 2016)
```

GetSitelevelSummaries *Get the PREDICTS database site level summaries.*

Description

This acesses summary data for the relevant PREDICTS database extract. There are two releases of the PREDICTS database, an initial release in 2016, and an additional release in 2022. The user chooses whether to pull summary data for the 2016 and/or 2022 release.

Usage

```
GetSitelevelSummaries(extract = c(2016, 2022))
```

Arguments

extract   Numeric, year/s corresponding to PREDICTS database releases to download.
                 Options are 2016 or 2022. Defaults to c(2016, 2022) - the whole dataset.

Value

The site-level summary data as a dataframe.

Examples

```
summaries <- GetSitelevelSummaries()
summaries_2016 <- GetSitelevelSummaries(extract = 2016)
```

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