Package: geoperu (via r-universe)

October 8, 2024

Title Download Spatial Datasets of Peru

Version 0.0.0.2

Description Provides convenient access to the official spatial
datasets of Peru as 'sf' objects in R. This package includes a
wide range of geospatial data covering various aspects of
Peruvian geography, such as: administrative divisions (Source:
INEI <https://ide.inei.gob.pe/>), protected natural areas
(Source: GEO ANP - SERNANP
<https://geo.sernanp.gob.pe/visorsernanp/>). All datasets are
harmonized in terms of attributes, projection, and topology,
ensuring consistency and ease of use for spatial analysis and
visualization.

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Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

BugReports https://github.com/PaulESantos/geoperu/issues

Depends R (>= 3.6.0)

LazyDataCompression xz

LazyData true

URL https://github.com/PaulESantos/geoperu,
https://paulesantos.github.io/geoperu/

Imports curl, data.table, httr, methods, sf

Repository https://paulesantos.r-universe.dev

RemoteUrl https://github.com/paulesantos/geoperu

RemoteRef HEAD

RemoteSha 69b9e1dfc6f560f75821a356de03630101089767

Contents

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get_anp_peru   *Download Spatial Data of Protected Natural Areas (ANP) in Peru*

Description

Downloads spatial data of protected natural areas in Peru declared by SERNAP (National Service of Natural Protected Areas). Data were obtained from GEO ANP as the official source. The data are in the "WGRS84" reference system and CRS(4326).

Usage

```
get_anp_peru(anp = NULL, showProgress = TRUE)
```

Arguments

anp   A character or a vector with the name(s) of the protected natural areas in Peru.

showProgress   Logical TRUE or FALSE to display a progress bar during download.

Value

An "sf" "data.frame" object containing the spatial data of Peru's protected natural areas.

Examples

```
# Read specific ANP
manu <- get_anp_peru(anp = "Manu")

pampa_galeras <- get_anp_peru(anp = "Pampa Galeras")

# Read more than one ANP
anps <- get_anp_peru(anp = c("Manu", "Yanachaga", "Calipuy"))
```

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get_geo_peru *Download spatial data of Peru*

Description

Downloads spatial data of Peru using Geodetic reference system "WGRS84" and CRS(4326).

Usage

```
get_geo_peru(
  geography = "all",
  level = "all",
  simplified = TRUE,
  showProgress = TRUE
)
```

Arguments

geography	A character or a vector with the name of geographical region. An exception is "all" to request all Peru data.
level	A character: "all" for national level data, "dep" for department level data, and "prov" for provincial level data.
simplified	A logical TRUE or FALSE, to select data with all districts or a polygon simplified to a higher level.
showProgress	Logical TRUE or FALSE to display a progress bar during download.

Value

An `"sf"` `"data.frame"` object containing the spatial data of Peru.

Examples

```
# Read specific province
anta <- get_geo_peru(geography = "ANTA",
                     level = "prov",
                     simplified = TRUE)

# Read more than one province
df <- get_geo_peru(geography = c("CALCA"),
                   level = "prov",
                   simplified = FALSE)

# Read department level data
cusco <- get_geo_peru(geography = "cusco",
                      level = "dep",
                      simplified = TRUE)
```

peru	*Distritos Peru*

Description

Información geográfica vectorial de los 1722 distritos del PERU y su geometría.

Usage

```
peru
```

Format

A `SpatialPolygonsDataFrame`

Source

<https://ide.inei.gob.pe/>

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