

Package: mozambique (via r-universe)

September 12, 2024

Type Package

Title Datasets for Designing Surveys in Mozambique

Version 0.0.0.9000

Description Designing surveys require relevant datasets to be used as basis for sample size calculations, sampling design, survey planning/logistics and survey implementation. These include datasets on population, lists of sampling clusters, map datasets for spatial sampling, and previous survey datasets that can be used for estimating indicator variance and design effects. This package contains relevant datasets for use in designing surveys in Mozambique.

License GPL (>= 3)

Depends R (>= 2.10)

Imports sf, magrittr, stringr, rhdX (>= 0.1.0.9000)

Suggests spelling, covr, testthat (>= 3.0.0)

Remotes github::dickoa/rhdX

Encoding UTF-8

Language en-GB

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

URL <https://github.com/spatialworks/mozambique>,
<https://spatialworks.io/mozambique/>

BugReports <https://github.com/spatialworks/mozambique/issues>

Config/testthat/edition 3

Repository <https://spatialworks.r-universe.dev>

RemoteUrl <https://github.com/spatialworks/mozambique>

RemoteRef HEAD

RemoteSha 667cc0925c5b40ebf600bf5edc6d9930c2d08895

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download_shapefiles *Download Mozambique shapefiles*

Description

Download Mozambique shapefiles

Usage

```
download_shapefiles(id = "cod-ab-moz", .unzip = TRUE)
```

Arguments

id	Identifier for Mozambique administrative boundaries from HDX.
.unzip	Logical. Should zip file be unzipped and extracted? Default to TRUE

Value

If .unzip, list of shapefiles within the downloaded zip file else path to downloaded zip file. Mozambique subnational administrative boundaries zip file downloaded to specified folder.

Examples

```
download_shapefiles()
```

get_country	<i>Retrieve Mozambique country boundaries</i>
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Description

Retrieve Mozambique country boundaries

Usage

```
get_country(layer = get_layer_name(adm = 0))
```

Arguments

layer Name of layer for country boundaries

Value

An sf object for the country borders of Mozambique

Examples

```
get_country()
```

get_districts	<i>Retrieve Mozambique districts boundaries</i>
---------------	---

Description

Retrieve Mozambique districts boundaries

Usage

```
get_districts(layer = get_layer_name(adm = 2))
```

Arguments

layer Name of layer for districts boundaries

Value

An sf object for the districts borders of Mozambique

Examples

```
get_districts()
```

get_layer_name *Get layer name*

Description

Get layer name

Usage

```
get_layer_name(files = download_shapefiles(), adm = NULL)
```

Arguments

files	List of shapefiles within a downloaded zip file
adm	Integer. Administrative level required. Either 0 for country, 1 for provincias, 2 for distritos, or 3 for postos

Value

Layer name for specified administrative level boundary

Examples

```
get_layer_name(adm = 0)
```

get_posts *Retrieve Mozambique posts boundaries*

Description

Retrieve Mozambique posts boundaries

Usage

```
get_posts(layer = get_layer_name(adm = 3))
```

Arguments

layer	Name of layer for posts boundaries
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Value

An sf object for the posts borders of Mozambique

Examples

```
get_posts()
```

get_provinces	<i>Retrieve Mozambique provinces boundaries</i>
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Description

Retrieve Mozambique provinces boundaries

Usage

```
get_provinces(layer = get_layer_name(adm = 1))
```

Arguments

layer Name of layer for provinces boundaries

Value

An sf object for the provinces borders of Mozambique

Examples

```
get_provinces()
```

pp1	<i>Mozambique populated places locations</i>
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Description

Mozambique populated places locations

Usage

```
pp1
```

Format

A sf object containing populated places locations of Mozambique

| **Variables** | **Description** || *osm_id* | OpenStreetMap identifier || *name* | Name of populated place |
| *source* | Source of data for populated place || *population* | Population size || *is_in* | Populated place
is in? || *place* | Type of place |

Source

https://data.humdata.org/dataset/hotosm_moz_populated_places

Examples

pp1

settlements

*Mozambique settlements locations***Description**

Mozambique settlements locations

Usage

settlements

Format

A sf object containing settlements locations of Mozambique

Variables | **Description** | | *OBJECTID* | Object identifier | | *FID_1* | Feature identifier | | *Sett_Name* | Settlement name | | *F_CLASS* | Feature class | | *F_DESIG* | Feature designation | | *ADM1_Old* | Administrative level 1 name - old | | *ADM2_Old* | Administrative level 2 name - old | | *Country* | Country name | | *ISO3* | Tree letter code for country | | *ADM1_Name* | Administrative level 1 name - current | | *ADM1_Code* | Administrative level 1 code - current | | *ADM1_ID* | Administrative level 1 identifier - current | | *ADM2_Name* | Administrative level 2 name - current | | *ADM2_Code* | Administrative level 2 code - current | | *ADM2_ID* | Administrative level 2 identifier - current | | *ADM3_Name* | Administrative level 3 name - current | | *ADM3_Code* | Administrative level 3 code - current | | *ADM3_ID* | Administrative level 3 identifier - current | | *ADM3_Type* | Administrative level 3 type - current | | *ADM3_TypeE* | Administrative level 3 type in English - current | | *Latitude* | Latitude coordinate | | *Longitude* | Longitude coordinate | | *SHAPE_Leng* | Shape length |

Source<https://data.humdata.org/dataset/mozambique-settlement-shapefiles>**Examples**

settlements

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