

Package: malawi (via r-universe)

September 12, 2024

Type Package

Title Datasets for Designing Surveys in Malawi

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 Malawi.

License GPL (>= 3)

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

Suggests spelling

Remotes github::dickoa/rhdX

Encoding UTF-8

Language en-GB

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

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

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

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

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

RemoteRef HEAD

RemoteSha 38bf5dbf7721a194e721e06389ed7fa4b87f132e

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download_boundaries_shapefiles

Download Malawi administrative boundaries shapefiles from Humanitarian Data Exchange

Description

Download Malawi administrative boundaries shapefiles from Humanitarian Data Exchange

Usage

```
download_boundaries_shapefiles(id, .unzip = TRUE)
```

Arguments

id	Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange
.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. (Invisible) Shapefiles zip file downloaded to specified folder.

Examples

```
download_boundaries_shapefiles(id = "cod-ab-mwi")
```

`download_lhz_shapefiles`

Download Malawi livelihood zones shapefiles from Humanitarian Data Exchange

Description

Download Malawi livelihood zones shapefiles from Humanitarian Data Exchange

Usage

```
download_lhz_shapefiles(.unzip = TRUE)
```

Arguments

`.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. (Invisible) Shapefiles zip file downloaded to specified folder.

Examples

```
download_lhz_shapefiles()
```

`get_boundaries_name` *Get administrative boundaries layer name*

Description

Get administrative boundaries layer name

Usage

```
get_boundaries_name(files, adm = NULL)
```

Arguments

`files` List of shapefiles within a downloaded zip file

`adm` Integer. Administrative level required. Either 0 for country, 1 for regions, 2 for districts, or 3 for traditional authority areas.

Value

Layer name for specified administrative level boundary

Examples

```
get_boundaries_name(
  download_boundaries_shapefiles(id = "cod-ab-mwi"), adm = 0
)
```

get_boundary	<i>Retrieve Malawi boundary layer</i>
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Description

Retrieve Malawi boundary layer

Usage

```
get_boundary(id, adm = NULL)
```

Arguments

id	Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange
adm	Integer. Administrative level required. Either 0 for country, 1 for regions, 2 for districts, or 3 for traditional authority areas.

Value

An sf object for specific boundary of Malawi

Examples

```
get_boundary(id = "cod-ab-mwi", adm = 0)
```

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

Retrieve Malawi country boundaries

Usage

```
get_country(id)
```

Arguments

`id` Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange

Value

An sf object for the country borders of Malawi

Examples

```
get_country(id = "cod-ab-mwi")
```

`get_districts` *Retrieve Malawi districts boundaries*

Description

Retrieve Malawi districts boundaries

Usage

```
get_districts(id)
```

Arguments

`id` Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange

Value

An sf object for the districts borders of Malawi

Examples

```
get_districts(id = "cod-ab-mwi")
```

get_lhz	<i>Retrieve Malawi livelihood zones</i>
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Description

Retrieve Malawi livelihood zones

Usage

```
get_lhz(layer = get_lhz_name())
```

Arguments

layer Name of layer for livelihood zones

Value

An sf object for the livelihood zones of Malawi

Examples

```
get_lhz()
```

get_lhz_name	<i>Get livelihoods zones layer name</i>
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Description

Get livelihoods zones layer name

Usage

```
get_lhz_name(files = download_lhz_shapefiles())
```

Arguments

files List of shapefiles within a downloaded zip file

Value

Layer name for livelihood zones shapefile

Examples

```
get_lhz_name()
```

get_regions	<i>Retrieve Malawi regions boundaries</i>
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Description

Retrieve Malawi regions boundaries

Usage

```
get_regions(id)
```

Arguments

id	Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange
----	---

Value

An sf object for the regions borders of Malawi

Examples

```
get_regions(id = "cod-ab-mwi")
```

get_ta_areas	<i>Retrieve Malawi traditional authority areas boundaries</i>
--------------	---

Description

Retrieve Malawi traditional authority areas boundaries

Usage

```
get_ta_areas(id)
```

Arguments

id	Character vector for unique identifier of administrative boundaries data for Malawi from Humanitarian Data Exchange
----	---

Value

An sf object for the traditional authority areas borders of Malawi

Examples

```
get_ta_areas(id = "cod-ab-mwi")
```

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