Package: mwmapdata (via r-universe)

October 9, 2026

Title Spatial Boundary Data for Malawi Administrative Levels

Version 1.0.0

Description Provides official spatial boundary datasets for Malawi at multiple administrative levels: country (level 0), regions (level 1), districts (level 2), and traditional authorities (level 3). Also includes Lake Malawi boundary data. Boundary data are the Common Operational Datasets (COD-AB) sourced from the National Statistics Office of Malawi and distributed via the OCHA Humanitarian Data Exchange (HDX), version 02 <https://data.humdata.org/dataset/cod-ab-mwi>. Intended for use with the 'mwmap' package or any spatial analysis workflow requiring Malawi administrative boundaries.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Depends R (>= 3.5)

Imports sf

Suggests knitr, rmarkdown

LazyData true

LazyDataCompression xz

URL https://github.com/bitacanalytics/mwmapdata, https://github.com/bitacanalytics/mwmap

BugReports https://github.com/bitacanalytics/mwmapdata/issues

Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev

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

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Contents

major_lakes 2
mw_level_0 2
mw_level_1 3
mw_level_2 4
mw_level_3 5
mwmapdata_check 6

Index **7**

`major_lakes` *Lake Malawi Boundary*

Description

Spatial data for Lake Malawi, also known as Lake Nyasa.

Usage

```
major_lakes
```

Format

An sf object with 1 feature and Natural Earth lake attributes:

name Lake name

name_alt Alternative lake name

geometry MULTIPOLYGON geometry for the lake boundary

Source

Natural Earth lake polygons

`mw_level_0` *Malawi Administrative Boundaries - Level 0 (Country)*

Description

National boundary of Malawi at administrative level 0.

Usage

```
mw_level_0
```

Format

An sf object with 1 feature and 5 fields:

ADM0_EN Country name (Malawi)

ADM0_PCODE Country ISO code (MW)

area_sqkm Area in square kilometres

center_lat Centroid latitude

center_lon Centroid longitude

geometry MULTIPOLYGON geometry for the national boundary

Source

Malawi Spatial Data Platform (MASDAP) / OCHA HDX, version 2 (2023)

`mw_level_1` *Malawi Administrative Boundaries - Level 1 (Regions)*

Description

The three administrative regions of Malawi: Northern, Central, and Southern.

Usage

```
mw_level_1
```

Format

An sf object with 3 features and 7 fields:

ADM1_EN Region name (Northern, Central, Southern)

ADM1_PCODE Region code (MW1, MW2, MW3)

ADM0_EN Country name

ADM0_PCODE Country code

area_sqkm Area in square kilometres

center_lat Centroid latitude

center_lon Centroid longitude

geometry MULTIPOLYGON geometry for regional boundaries

Source

Malawi Spatial Data Platform (MASDAP) / OCHA HDX, version 2 (2023)

`mw_level_2` *Malawi Administrative Boundaries - Level 2 (Districts)*

Description

District-level administrative boundaries for all 32 districts of Malawi, including the four city districts (Blantyre City, Lilongwe City, Mzuzu City, Zomba City) added in the 2023 boundary update.

Usage

```
mw_level_2
```

Format

An sf object with 32 features and 12 fields:

ADM2_EN District name (e.g., Lilongwe, Blantyre, Mzimba)

ADM2_PCODE District code (e.g., MW201)

ADM1_EN Region name

ADM1_PCODE Region code

ADM0_EN Country name

ADM0_PCODE Country code

area_sqkm Area in square kilometres

center_lat Centroid latitude

center_lon Centroid longitude

REGION Region name (convenience alias for ADM1_EN)

DISTRICT District name (convenience alias for ADM2_EN)

geometry MULTIPOLYGON geometry for district boundaries

Source

Malawi Spatial Data Platform (MASDAP) / OCHA HDX, version 2 (2023)

`mw_level_3` *Malawi Administrative Boundaries - Level 3 (Traditional Authorities)*

Description

Traditional Authority (TA) level administrative boundaries representing third-level subdivisions within districts, governed by traditional leaders.

Usage

```
mw_level_3
```

Format

An sf object with 433 features and 16 fields:

ADM3_EN Traditional Authority name

ADM3_PCODE Traditional Authority code

ADM3_REF Reference name for the Traditional Authority

ADM2_EN District name

ADM2_PCODE District code

ADM1_EN Region name

ADM1_PCODE Region code

ADM0_EN Country name

ADM0_PCODE Country code

area_sqkm Area in square kilometres

center_lat Centroid latitude

center_lon Centroid longitude

REGION Region name (convenience alias for ADM1_EN)

DISTRICT District name (convenience alias for ADM2_EN)

TA Traditional Authority name (convenience alias for ADM3_EN)

geometry MULTIPOLYGON geometry for TA boundaries

Source

Malawi Spatial Data Platform (MASDAP) / OCHA HDX, version 2 (2023)

`mwmapdata_check` *Check if mwmapdata spatial data is valid*

Description

A utility to confirm that the spatial objects in **mwmapdata** are well-formed sf objects.

Usage

```
mwmapdata_check(x = mw_level_2)
```

Arguments

`x`	An sf object to check. Defaults to `mw_level_2`.

Value

Logical. `TRUE` if `x` is a valid sf object.

Index

∗ **datasets**
major_lakes, 2
mw_level_0, 2
mw_level_1, 3
mw_level_2, 4
mw_level_3, 5

major_lakes, 2
mw_level_0, 2
mw_level_1, 3
mw_level_2, 4
mw_level_3, 5
mwmapdata_check, 6