

Package: mwmapdata (via r-universe)

June 6, 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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RemoteUrl <https://github.com/bitacanalytics/mwmapdata>

RemoteRef HEAD

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major_lakes	<i>Lake Malawi Boundary</i>
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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	<i>Malawi Administrative Boundaries - Level 0 (Country)</i>
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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	<i>Check if mwmapdata spatial data is valid</i>
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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.

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