

# Package ‘mwmapdata’

May 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.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Depends** R (>= 3.5)

**Imports** sf

**Suggests** knitr, rmarkdown, testthat (>= 3.0.0)

**LazyData** true

**LazyDataCompression** xz

**URL** <https://github.com/bitacanalytics/mwmapdata>,

<https://github.com/bitacanalytics/mwmap>

**BugReports** <https://github.com/bitacanalytics/mwmapdata/issues>

**Config/testthat/edition** 3

**NeedsCompilation** no

**Author** Chifundo Bita [aut, cre]

**Maintainer** Chifundo Bita <[bitac.analytics@gmail.com](mailto:bitac.analytics@gmail.com)>

**Repository** CRAN

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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

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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.

**Examples**

```
mwapdata_check(mw_level_0)
mwapdata_check(mw_level_2)
```

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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)

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mw\_level\_1

*Malawi Administrative Boundaries - Level 1 (Regions)*

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### 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)

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mw\_level\_2

*Malawi Administrative Boundaries - Level 2 (Districts)*

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### 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)

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mw\_level\_3

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


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**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)

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