Package: fieldmaps (via r-universe)

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Title R Interface to Fieldmaps Data

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Description Access global edge-matched subnational boundaries from R.

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URL https://github.com/epicentre-msf/fieldmaps

BugReports https://github.com/epicentre-msf/fieldmaps/issues

Suggests testthat (>= 3.0.0), RSQLite

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

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get_adm_level *Get Administrative Boundaries for a Specific Level*

Description

Downloads administrative boundary data for a specific administrative level from the fieldmaps dataset. Fieldmaps provides standardized administrative boundaries for humanitarian and development use cases.

Usage

```
get_adm_level(
  country,
  level,
  con = NULL,
  dataset = "humanitarian",
  geom = "polygons",
  check_max_level = TRUE
)
```

Arguments

country	Character. Country name or ISO3 code to download boundaries for.
level	Numeric. Administrative level to retrieve (1, 2, 3, or 4). Level 1 represents the largest sub-national divisions (states/provinces), with higher numbers representing smaller administrative units.
con	DuckDB connection object. If NULL, a temporary connection will be created.
dataset	Character. Dataset to use, either "humanitarian" or "open". Default is "humanitarian". See https://fieldmaps.io/data/ for details.
geom	Character. Geometry type to retrieve: "polygons", "lines", or "points". Default is "polygons".
check_max_level	Logical. Whether to validate that the requested level exists for the country. Default is TRUE.

Value

An sf object containing the administrative boundaries with CRS 4326 (WGS84).

Examples

```
## Not run:
# Get level 1 administrative boundaries for Kenya
kenya_adm1 <- get_adm_level("Kenya", level = 1)

# Get level 2 boundaries using ISO3 code
```

```
ken_adm2 <- get_adm_level("KEN", level = 2)

# Use open dataset instead of humanitarian
boundaries <- get_adm_level("Uganda", level = 1, dataset = "open")

## End(Not run)
```

`get_all_adm_levels` *Get All Available Administrative Levels for a Country*

Description

Downloads all available administrative boundary levels for a country from the fieldmaps dataset. This function automatically determines the maximum administrative level available and retrieves all levels from 1 to the maximum.

Usage

```
get_all_adm_levels(
  country,
  dataset = "humanitarian",
  geom = "polygons",
  con = NULL
)
```

Arguments

`country`	Character. Country name or ISO3 code to download boundaries for.
`dataset`	Character. Dataset to use, either "humanitarian" or "open". Default is "humanitarian". See https://fieldmaps.io/data/ for details.
`geom`	Character. Geometry type to retrieve: "polygons", "lines", or "points". Default is "polygons".
`con`	DuckDB connection object. If NULL, a temporary connection will be created.

Value

A named list of sf objects, with names like "ADM1", "ADM2", etc. Each sf object contains administrative boundaries for that level with CRS 4326 (WGS84).

Examples

```
## Not run:
# Get all administrative levels for Somalia
somalia_all <- get_all_adm_levels("Somalia")

# Access individual levels
somalia_adm1 <- somalia_all$ADM1
```

```
somalia_adm2 <- somalia_all$ADM2

# Get all levels from open dataset
boundaries <- get_all_adm_levels("ETH", dataset = "open")

## End(Not run)
```

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