

Package ‘geoidep’

September 27, 2026

Type Package

Title Download Geographic Data on Various Topics Provided and Managed by the Spatial Data Infrastructure of Peru

Version 0.4.0

Description Provides R users with easy access to official cartographic data from Peru across a range of topics, including society, transport, environment, agriculture, climate, and more. It also includes data from regional government entities and technical-scientific institutions, all managed by Peru's Spatial Data Infrastructure. For more information, please visit:
<<https://www.geoidep.gob.pe/>>.

License Apache License (>= 2)

URL <https://geografo.pe/geoidep/>

BugReports <https://github.com/ambarja/geoidep/issues>

Depends R (>= 4.1.0)

Imports archive, cli, dplyr, httr2 (>= 1.0.0), jsonlite, lifecycle, rvest, sf, stats, tidyr, terra, tibble, utils

Suggests ggplot2, knitr, mapgl, rmarkdown, testthat (>= 3.2.0)

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

Config/roxygen2/version 8.1.0

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-09-27 09:10:27 UTC

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get_data_sources	<i>List providers, description, year and link</i>
------------------	---

Description

List the available providers of the geoidep package.

Usage

```
get_data_sources(query = NULL)
```

Arguments

query	A string. Default is NULL. Filter by provider name(s). For valid values use <code>get_providers()</code> .
-------	--

Value

A tibble object.

Examples

```
## Not run:  
library(geoidep)  
get_data_sources()  
  
## End(Not run)
```

get_departaments	<i>Download INEI departmental boundaries</i>
------------------	--

Description

Download the latest version of the **geometry** and **ubigeos** corresponding to the official political division of the department boundaries of Peru. For more information, visit [INEI Spatial Data Portal](#).

Usage

```
get_departaments(  
  departamento = NULL,  
  dsn = NULL,  
  show_progress = TRUE,  
  quiet = TRUE,  
  timeout = 60  
)
```

Arguments

departamento	Character. Name or names in a vector of the level-1 administrative boundary (department) to query. Case-insensitive.
dsn	Character. Directory where the file will be saved. If NULL, a temporary file is used.
show_progress	Logical. Show a cli progress bar. Default TRUE.
quiet	Logical. Suppress info message from <code>sf::st_read()</code> .
timeout	Numeric. Seconds to wait for a response. Default 60.

Value

An sf object.

Examples

```
## Not run:
library(geoidep)
dep <- get_departamentos(show_progress = FALSE)
head(dep)
loreto <- get_departamentos(departamento = "loreto", show_progress = FALSE)
head(loreto)

## End(Not run)
```

get_districts

Download INEI district boundaries

Description

Download the latest version of the **geometry** and **ubigeos** corresponding to the official political division of the district boundaries of Peru. For more information, visit [INEI Spatial Data Portal](#).

Usage

```
get_districts(
  departamento = NULL,
  provincia = NULL,
  distrito = NULL,
  dsn = NULL,
  show_progress = TRUE,
  quiet = TRUE,
  timeout = 60
)
```

Arguments

departamento	Character. Level-1 name. Case-insensitive.
provincia	Character. Level-2 name. Case-insensitive.
distrito	Character. Level-3 name. Case-insensitive.
dsn	Character. Directory where the file will be saved. If NULL, a temporary file is used.
show_progress	Logical. Show a cli progress bar.
quiet	Logical. Suppress info message.
timeout	Numeric. Seconds to wait for a response. Default 60.

Details

- **[Stable]**. Stable API.
- If no filter is supplied, the full national district dataset is returned.

Value

An sf object.

Examples

```
## Not run:
library(geoidep)
dist <- get_districts(show_progress = FALSE)
head(dist)
lima <- get_districts(departamento = "lima", provincia = "lima", show_progress = FALSE)
head(lima)

## End(Not run)
```

get_early_warning	<i>Download information on the latest deforestation alerts detected by Geobosque</i>
-------------------	--

Description

Download deforestation alert information detected by Geobosque for any polygon in Peru. For more details, visit [Geobosque Platform](#).

Usage

```
get_early_warning(region, sf = TRUE, show_progress = TRUE)
```

Arguments

region	An sf object. Area of interest (must be EPSG:4326).
sf	Logical. Return an sf object (TRUE) or a tibble (FALSE).
show_progress	Logical. Show cli progress. Default TRUE.

Value

A tibble or sf object.

Examples

```
## Not run:
library(geoidep)
loreto <- get_departamentos(show_progress = FALSE) |> subset(nombdep == "LORETO")
warning_point <- get_early_warning(region = loreto, sf = TRUE, show_progress = FALSE)
head(warning_point)

## End(Not run)
```

get_forest_loss_data *Download the forest and loss information from Geobosque*

Description

Download the **ubigeos** corresponding to the official political division of the district, province or region boundaries of Peru with **forest and loss information**. For more information, visit [Geobosque Platform](#).

Usage

```
get_forest_loss_data(layer = NULL, ubigeo = NULL, show_progress = TRUE)
```

Arguments

layer	A string. One of stock_bosque_perdida_distrito, stock_bosque_perdida_provincia, stock_bosque_perdida_departamento.
ubigeo	A string. Ubigeo code: 6 digits (distrito), 4 digits (provincia), 2 digits (departamento).
show_progress	Logical. Show cli progress. Default TRUE.

Details

Available layers:

- **stock_bosque_perdida_distrito:** forest stock/loss for a district.
- **stock_bosque_perdida_provincia:** forest stock/loss for a province.
- **stock_bosque_perdida_departamento:** forest stock/loss for a region.

The data come from the wet-forest (bosque humedo) loss series of the current Geobosques API (years 2001-2025) and are returned with the historical column layout (anio, perdida, rango1-rango5, ubigeo).

Value

A tibble object.

Examples

```
## Not run:
library(geoidep)
geobosque <- get_forest_loss_data(
  layer = "stock_bosque_perdida_distrito",
  ubigeo = "010101",
  show_progress = FALSE)
head(geobosque)

## End(Not run)
```

get_hotspots_data	<i>Download available hot spot data from Serfor's Satellite Monitoring Unit</i>
-------------------	---

Description

Download the latest version of forest fire data available from the Satellite Monitoring Unit of the National Forestry and Wildlife Service of Peru. For more information, visit [Serfor Platform](#).

Usage

```
get_hotspots_data(dsn = NULL, show_progress = TRUE, quiet = TRUE)
```

Arguments

dsn	Character. Output filename. If missing, a temporary file is created.
show_progress	Logical. Show a cli progress bar. Default TRUE.
quiet	Logical. Suppress message from <code>sf::st_read()</code> . Default TRUE.

Value

An sf object.

Examples

```
## Not run:  
library(geoidep)  
library(sf)  
hot_spots <- get_hotspots_data(show_progress = FALSE)  
head(hot_spots)  
  
## End(Not run)
```

get_inaigem_data	<i>Download the available data from INAIGEM</i>
------------------	---

Description

Download the latest version of data available on the INAIGEM geoportal. For more information, visit [INAIGEM Geoportal](#).

Usage

```
get_inaigem_data(
  layer = NULL,
  dsn = NULL,
  show_progress = TRUE,
  quiet = TRUE,
  timeout = 60
)
```

Arguments

layer	Select only one from the list of available layers, for more information please use <code>get_data_sources(provider = "INAIGEM")</code> . Defaults to NULL.
dsn	Character. Output filename. If missing, a temporary file is created.
show_progress	Logical. Show a cli progress bar. Default TRUE.
quiet	Logical. Suppress info message. Default TRUE.
timeout	Numeric. Seconds to wait for a response. Default 60.

Value

An sf object.

Examples

```
## Not run:
library(geoidep)
library(sf)
glaciar <- get_inaigem_data(layer = "glaciares_1989", show_progress = FALSE)
head(glaciar)
plot(st_geometry(glaciar))

## End(Not run)
```

```
get_mapbiomas_alert_images
```

Download before/after deforestation images from MapBiomass Alerta Peru

Description

Download satellite imagery (before/after deforestation) for specific MapBiomass Alerta alerts from public Google Cloud Storage buckets. Progress uses [cli](#).

Usage

```
get_mapbiomas_alert_images(
  alert_ids,
  download_dir = NULL,
  image_type = "both",
  show_progress = TRUE,
  overwrite = FALSE
)
```

Arguments

alert_ids	Character or numeric vector. Alert IDs to download images for.
download_dir	Character. Directory where images will be saved. If NULL, a temporary directory is used.
image_type	Character. Which images to download: "both" (default), "before", or "after".
show_progress	Logical. Show cli progress. Default TRUE.
overwrite	Logical. Overwrite existing files. Default FALSE.

Details

File names follow the pattern `alert_{id}_before_deforestation.png` and `alert_{id}_after_deforestation.png`. Each image has a 120-second timeout.

Value

A tibble with columns `alert_id`, `image_type`, `url`, `local_path`, `status`, `error_message`.

Examples

```
## Not run:
library(geoidep)
aoi <- get_departamentos(show_progress = FALSE) |>
  subset(nombdep == "UCAYALI")
alerts <- get_mapbiomas_peru_alerta(region = aoi, show_progress = FALSE)
alert_ids <- alerts$id[1:5]
download_dir <- file.path(tempdir(), "mapbiomas_images")
results <- get_mapbiomas_alert_images(
  alert_ids = alert_ids,
  download_dir = download_dir,
  show_progress = FALSE
)
head(results)

## End(Not run)
```

```
get_mapbiomas_peru_alerta
```

Download MapBiomias Alerta Peru deforestation alerts with spatial filtering

Description

Download the latest deforestation alerts detected by MapBiomias Alerta Peru for a specific geographic area using an sf object (bounding box or polygon). For more details, please visit: [Map-Biomias Alerta Platform](#)

Usage

```
get_mapbiomas_peru_alerta(
  region = NULL,
  from = NULL,
  to = NULL,
  dsn = NULL,
  method = "within",
  show_progress = TRUE,
  quiet = TRUE,
  timeout = 60
)
```

Arguments

region	An sf object specifying the area of interest (must be in EPSG:4326 - WGS 84).
from	Character. Start date in "YYYY-MM-DD" format. If NULL, no lower bound.
to	Character. End date in "YYYY-MM-DD" format. If NULL, no upper bound.
dsn	Character. Output filename. If missing, a temporary GeoJSON file is created.
method	Character. Spatial predicate used to filter the downloaded alerts against region: "intersects" (safest default is "within" for backward compatibility), "within", "contains", "crosses", "touches".
show_progress	Logical. Show cli progress. Default TRUE.
quiet	Logical. Suppress messages from sf::st_read(). Default TRUE.
timeout	Numeric. Seconds to wait for the server response (default 60).

Details

The bounding box of region is used to query the WFS service. Image URLs are generated from the alert id and point to public Google Cloud Storage buckets. Column names are normalised to lowercase.

Value

An sf object with alert geometries, attributes and image URLs.

get_mapbiomas_peru_fire

Get a MapBiomass Peru Fire raster

Description

Lazily reads a MapBiomass Fuego (Fire) Peru raster from a given sub-product, hosted as a GeoTIFF on Google Cloud Storage. Only the bytes required for the requested extent are downloaded (via GDAL's /vsicurl/ driver). Optionally crops and masks the raster to an area of interest.

Usage

```
get_mapbiomas_peru_fire(product, year, crop_to = NULL, collection = 1)
```

Arguments

product	Character. One of the products listed in <code>get_mapbiomas_peru_fire_products</code> , e.g. "annual_burned".
year	Integer. For "annual" products, the map year (from 1999). For "range" products (accumulated_*, frequency_burned), the end year (from 2014, range starts 2013).
crop_to	Optional. An sf/sfc object, SpatVector, or SpatExtent. If NULL, the full raster is returned.
collection	Integer. MapBiomass Fuego Peru collection. Default 1 (only one available).

Value

A SpatRaster with one layer.

Examples

```
## Not run:
library(geoidep)
lima <- get_departaments("LIMA")
burned_2024 <- get_mapbiomas_peru_fire(product = "annual_burned", year = 2024, crop_to = lima)

## End(Not run)
```

`get_mapbiomas_peru_fire_legend`*Get the MapBiomass Peru Fire legend for a given product*

Description

Returns a lookup table with the pixel value codes, English/Spanish class names, and hexadecimal colors used by a given MapBiomass Fuego Peru sub-product (Collection 1). Useful for building color scales (see [scale_fill_mapbiomas_peru_fire_d](#)).

Usage

```
get_mapbiomas_peru_fire_legend(product)
```

Arguments

`product` Character. One of the products listed in [get_mapbiomas_peru_fire_products](#).

Details

- `annual_burned` and `accumulated_burned`: binary classification (1 = "Burned area").
- `annual_burned_coverage` and `accumulated_burned_coverage`: share the LULC legend.
- `monthly_burned`: values 1-12 = month of burning.
- `frequency_burned`: values 1-12 = burn count (12 = "12 or more times").
- `year_last_fire`: values are years (2013-2024).
- `annual_burned_scar_size_range`: values 1-5 = scar size class.

Value

A tibble with columns `id`, `class_en`, `class_es`, and `hex`.

Examples

```
library(geoidep)
get_mapbiomas_peru_fire_legend("frequency_burned")
```

```
get_mapbiomas_peru_fire_products
```

Get available MapBiomass Peru Fire products

Description

Returns a lookup table describing the MapBiomass Fuego (Fire) Peru sub-products available for download, including their internal codes, descriptions, and whether they are indexed by a single year or by a year range (starting in 2013).

Usage

```
get_mapbiomas_peru_fire_products()
```

Value

A tibble with columns product, description_en, description_es, and temporal ("annual" or "range").

Examples

```
library(geoidep)
get_mapbiomas_peru_fire_products()
```

```
get_mapbiomas_peru_lulc
```

Get MapBiomass Peru land use / land cover raster

Description

Lazily reads a single-year Land Use and Land Cover (LULC) classification raster from the MapBiomass Peru collection. Only the bytes required for the requested extent are downloaded (via GDAL's /vsicurl/ driver). Optionally crops and masks the raster to an area of interest.

Usage

```
get_mapbiomas_peru_lulc(year, crop_to = NULL, collection = 4)
```

Arguments

year	Integer. Year of the classification (e.g. 2024).
crop_to	Optional. An sf/sfc object, SpatVector, or SpatExtent. If NULL, the full raster for Peru is returned.
collection	Integer. MapBiomass Peru collection number (1, 2, 3, 4). Default 3.

Value

A SpatRaster with one layer named classification_<year>.

Examples

```
## Not run:
library(geoidep)
lima <- get_departamentos("LIMA", show_progress = FALSE)
lulc_2024 <- get_mapbiomas_peru_lulc(year = 2024, crop_to = lima)
lulc_2024
lulc_2025 <- get_mapbiomas_peru_lulc(year = 2025, collection = 4, crop_to = lima)
lulc_2025

## End(Not run)
```

```
get_mapbiomas_peru_lulc_series
```

Get a multi-year stack of MapBiomass Peru LULC rasters

Description

Downloads and stacks multiple single-year LULC rasters from MapBiomass Peru (see [get_mapbiomas_peru_lulc](#)), each cropped to the same area of interest if provided. Progress uses [cli](#).

Usage

```
get_mapbiomas_peru_lulc_series(
  years,
  crop_to = NULL,
  collection = 4,
  show_progress = TRUE
)
```

Arguments

years	Integer vector. Years to download (e.g. 2018:2024).
crop_to	Optional. An sf/sfc object, SpatVector, or SpatExtent. If NULL, each raster is returned at full extent.
collection	Integer. MapBiomass Peru collection number (1, 2, 3, 4). Default 3.
show_progress	Logical. Show a cli progress bar. Default TRUE.

Value

A SpatRaster with one layer per year, named classification_<year>.

Examples

```
## Not run:
library(geoidep)
lima <- get_departaments("LIMA", show_progress = FALSE)
lulc_series <- get_mapbiomas_peru_lulc_series(years = 2020:2024, crop_to = lima)
lulc_series

## End(Not run)
```

get_mtc_data	Download the available data from MTC
--------------	--------------------------------------

Description

Download the latest version of data available on the MTC geoportal. For more information, visit [MTC Geoportal](#).

Usage

```
get_mtc_data(
  layer = NULL,
  dsn = NULL,
  show_progress = TRUE,
  quiet = TRUE,
  timeout = 60
)
```

Arguments

layer	Select only one from the list of available layers, for more information please use <code>get_data_sources(provider = "mtc")</code> . Defaults to NULL.
dsn	Character. Output filename with the spatial format . If missing, a temporary file is created.
show_progress	Logical. Show a cli progress bar. Default TRUE.
quiet	Logical. Suppress info message. Default TRUE.
timeout	Numeric. Seconds to wait for a response. Default 60.

Value

An sf object.

Examples

```
## Not run:
library(geoidep)
library(sf)
aerodromo <- get_mtc_data(layer = "aerodromos_2023", show_progress = FALSE)
head(aerodromo)
plot(st_geometry(aerodromo))

## End(Not run)
```

get_providers	<i>List resources and count layers of IDEP</i>
---------------	--

Description

Summary of providers.

Usage

```
get_providers(query = NULL)
```

Arguments

query Character. Default is NULL (only NULL is valid).

Value

A tibble with columns provider and layer_count.

Examples

```
## Not run:
library(geoidep)
get_providers()

## End(Not run)
```

get_provinces	Download INEI province boundaries
---------------	-----------------------------------

Description

Download the latest version of the **geometry** and **ubigeos** corresponding to the official political division of the province boundaries of Peru. For more information, visit [INEI Spatial Data Portal](#).

Usage

```
get_provinces(  
  departamento = NULL,  
  provincia = NULL,  
  dsn = NULL,  
  show_progress = TRUE,  
  quiet = TRUE,  
  timeout = 60  
)
```

Arguments

departamento	Character. Name of the level-1 administrative boundary (department). Case-insensitive.
provincia	Character. Name of the level-2 administrative boundary (province). Case-insensitive. Requires departamento.
dsn	Character. Directory where the file will be saved. If NULL, a temporary file is used.
show_progress	Logical. Show a cli progress bar.
quiet	Logical. Suppress info message.
timeout	Numeric. Seconds to wait for a response. Default 60.

Value

An sf object.

Examples

```
## Not run:  
library(geoidep)  
prov <- get_provinces(show_progress = FALSE)  
head(prov)  
  
## End(Not run)
```

get_sernanp_data	<i>Download the available data from Sernanp</i>
------------------	---

Description

Download the latest version of data available on the sernanp geoviewer. For more information, visit [Sernanp Platform](#).

Usage

```
get_sernanp_data(  
  layer = NULL,  
  dsn = NULL,  
  show_progress = TRUE,  
  quiet = TRUE,  
  timeout = 60  
)
```

Arguments

layer	Select only one from the list of available layers, for more information please use <code>get_data_sources(provider = "sernanp")</code> . Defaults to NULL.
dsn	Character. Output filename. If missing, a temporary file is created.
show_progress	Logical. Show a cli progress bar. Default TRUE.
quiet	Logical. Suppress info message. Default TRUE.
timeout	Numeric. Seconds to wait for a response. Default 60.

Value

An sf object.

Examples

```
## Not run:  
library(geoidep)  
library(sf)  
anp <- get_sernanp_data(layer = "zonificacion_anp", show_progress = FALSE)  
plot(st_geometry(anp))  
  
## End(Not run)
```

`scale_fill_mapbiomas_peru_fire_d`*Discrete fill scale for MapBiomass Peru Fire products*

Description

A ggplot2 discrete fill scale that applies the official MapBiomass Fuego Peru (Collection 1) color palette for a given sub-product to a classified SpatRaster (as a factor), for use with `tidyterra::geom_spatraster()`.

Usage

```
scale_fill_mapbiomas_peru_fire_d(  
  product,  
  ...,  
  lang = c("en", "es"),  
  na.translate = FALSE  
)
```

Arguments

<code>product</code>	Character. One of the products listed in get_mapbiomas_peru_fire_products .
<code>...</code>	Additional arguments passed to scale_fill_manual .
<code>lang</code>	Character. Legend language, either "en" (default) or "es".
<code>na.translate</code>	Logical. Should NA values be displayed in the legend? Default FALSE.

Value

A ggplot2 discrete scale object.

Examples

```
## Not run:  
library(geoidep)  
library(ggplot2)  
library(tidyterra)  
lima <- get_departamentos("LIMA", show_progress = FALSE)  
freq <- get_mapbiomas_peru_fire(product = "frequency_burned", year = 2024, crop_to = lima)  
ggplot() +  
  geom_spatraster(data = as.factor(freq)) +  
  scale_fill_mapbiomas_peru_fire_d("frequency_burned", lang = "es") +  
  theme_minimal()  
  
## End(Not run)
```

`scale_fill_mapbiomas_peru_lulc_d`*Discrete fill scale for MapBiomass Peru LULC classes*

Description

A ggplot2 discrete fill scale that applies the official MapBiomass Peru Collection 3 color palette to a classified SpatRaster (as a factor), for use with `tidyterra::geom_spatraster()`.

Usage

```
scale_fill_mapbiomas_peru_lulc_d(  
  ...,  
  lang = c("en", "es"),  
  na.translate = FALSE  
)
```

Arguments

<code>...</code>	Additional arguments passed to scale_fill_manual .
<code>lang</code>	Character. Legend language, either "en" (default) or "es".
<code>na.translate</code>	Logical. Should NA values be displayed in the legend? Default FALSE.

Value

A ggplot2 discrete scale object.

Examples

```
## Not run:  
library(geoidep)  
library(ggplot2)  
library(tidyterra)  
lima <- get_departamentos("LIMA")  
lulc_2024 <- get_mapbiomas_peru_lulc(year = 2024, crop_to = lima)  
ggplot() +  
  geom_spatraster(data = as.factor(lulc_2024)) +  
  scale_fill_mapbiomas_peru_lulc_d(lang = "es") +  
  theme_minimal() +  
  labs(fill = "Cobertura/Uso", title = "MapBiomass Peru 2024")  
  
## End(Not run)
```

`senamhi_alerts_by_year`*Filter Senamhi alerts by year*

Description

Filter Senamhi alerts by year

Usage

```
senamhi_alerts_by_year(data, year)
```

Arguments

<code>data</code>	A data frame of meteorological alerts.
<code>year</code>	A numeric value indicating the year.

Value

A filtered tibble.

`senamhi_alert_by_number`*Filter Senamhi alerts by number*

Description

Filter Senamhi alerts by number

Usage

```
senamhi_alert_by_number(data, nro)
```

Arguments

<code>data</code>	A data frame of meteorological alerts.
<code>nro</code>	A numeric vector indicating the alert number(s).

Value

A filtered tibble.

senamhi_geometry_by_level

Filter alert geometry by danger level

Description

This function filters the sf object from Senamhi by alert level (e.g., 1 to 4).

Usage

```
senamhi_geometry_by_level(sf_data, level)
```

Arguments

sf_data	An sf object returned by senamhi_get_spatial_alerts().
level	Numeric or character vector: values like 1, 2, 3, 4 or "Nivel 1", etc.

Value

Filtered sf object.

Examples

```
## Not run:
senamhi_get_meteorological_table() |>
  senamhi_alert_by_number(295) |>
  senamhi_alerts_by_year(2024) |>
  senamhi_get_spatial_alerts(show_progress = FALSE) |>
  senamhi_geometry_by_level(3) |>
  plot()

## End(Not run)
```

senamhi_get_meteorological_table

Download Weather Alert Table from Senamhi

Description

This function downloads the table of weather warnings provided by Senamhi. For more information, please visit the following link: <https://www.senamhi.gob.pe/?p=aviso-meteorologico>

Usage

```
senamhi_get_meteorological_table(show_progress = TRUE, timeout = 60)
```

Arguments

show_progress Logical. Show a cli progress bar. Default TRUE.
 timeout Numeric. Seconds to wait for the server response. Default 60.

Value

A tibble object containing the weather alert data.

Examples

```
## Not run:
data <- senamhi_get_meteorological_table(show_progress = FALSE)
head(data)

## End(Not run)
```

senamhi_get_spatial_alerts

Download Meteorological Alert Geometry from Senamhi

Description

This function downloads the spatial alert geometry (shapefile) from Senamhi for a given alert.

Usage

```
senamhi_get_spatial_alerts(
  data = NULL,
  nro = NULL,
  year = NULL,
  dsn = NULL,
  show_progress = TRUE,
  quiet = TRUE,
  timeout = 60
)
```

Arguments

data A data frame with a single alert (with columns nro and emission), or NULL if you specify nro and year.
 nro A numeric value (optional if data is provided).
 year A numeric value (optional if data is provided).
 dsn Path to save the downloaded .zip. If NULL, a temporary file is used.
 show_progress Logical, show cli progress bar.
 quiet Logical, suppress messages from sf::st_read().
 timeout Numeric. Seconds to wait for a response. Default 60.

Value

An sf object with the alert geometry.

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