

Package: schwartzGeohashPM (via r-universe)

October 13, 2024

Title Add PM2.5, NO2, and O3 Concentrations to Data Based on Geohash

Version 0.0.7

Description Downloads estimates of PM2.5, NO2, and O3 concentrations from Schwartz model and joins them to input data based on geohashed locations and date (data available 2000 - 2016).

License GPL-3

Encoding UTF-8

LazyData true

StagedInstall no

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Depends R (>= 2.10)

Imports dplyr (>= 1.0.0), purrr (>= 0.3.4), tidyr (>= 1.0.0), qs (>= 0.23.3), stringr (>= 1.4.0), lubridate (>= 1.7.4), tibble (>= 3.0.3), magrittr, progressr (>= 0.6.0), s3 (>= 0.2.4), cli (>= 2.3.0), dht (>= 0.0.4), glue (>= 1.4.2)

Remotes geomarker-io/s3, degauss-org/dht

Suggests testthat, fs, withr

Repository <https://geomarker-io.r-universe.dev>

RemoteUrl <https://github.com/geomarker-io/schwartzGeohashPM>

RemoteRef HEAD

RemoteSha 7ccb565e87605688e03a87f6765f4320685bd030

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`add_schwartz_pollutants`*add PM2.5, NO2, and O3 concentrations to data based on geohash*

Description

add PM2.5, NO2, and O3 concentrations to data based on geohash

Usage

```
add_schwartz_pollutants(d, verbose = FALSE, ...)
```

Arguments

<code>d</code>	dataframe with columns called 'sitecode', 'start_date', and 'end_date' (most likely the output from the 'schwartz_grid_lookup' container)
<code>verbose</code>	if TRUE a statement is printed to the console telling the user which chunk file is currently being processed. Defaults to FALSE.
<code>...</code>	arguments passed to s3_get_files

Value

the input dataframe, expanded to include one row per day between the given 'start_date' and 'end_date', with appended columns for geohash, PM2.5, NO2, and O3 concentrations.

Examples

```
if (FALSE) {  
  d <- tibble::tribble(  
    ~id, ~lat, ~lon, ~site_index, ~sitecode, ~start_date, ~end_date,  
    '55000100280', 39.2, -84.6, '9607238', '211050640897', '2008-09-09', '2008-09-11',  
    '55000100281', 39.2, -84.6, '9607238', '211050640897', '2007-08-05', '2007-08-08',  
    '55000100282', 39.2, -84.6, '9607238', '211050640897', '2015-08-31', '2015-09-02') %>%  
    dplyr::mutate_at(vars(start_date, end_date), as.Date)  
  
  add_schwartz_pollutants(d)  
}
```

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