

Package: addNarrData (via r-universe)

October 12, 2024

Title Adds NARR Variables Based on Date and 12 x 12 km Grid Cell

Version 1.0.2

Description Adds NARR weather variables based on date and 12 x 12 km grid cell.

License GPL-3

Encoding UTF-8

LazyData true

Suggests knitr, rmarkdown, testthat, lubridate, tibble

VignetteBuilder knitr

URL http://geomarker.io/add_narr_data

BugReports https://github.com/geomarker-io/add_narr_data/issues

Imports dplyr (>= 0.8.4), purrr (>= 0.3.3), tidyr (>= 1.0.0), fst (>= 0.9.2), data.table (>= 1.12.2), magrittr, fs (>= 1.3.1), tidyselect (>= 1.0.0), rappdirs, utils, cli (>= 2.3.0), s3 (>= 0.3.1), withr (>= 2.2.0), raster (>= 3.4-5), sf (>= 0.9-7), dht (>= 0.0.4), glue (>= 1.4.2), progress

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

RoxygenNote 7.1.1

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

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

RemoteRef HEAD

RemoteSha cbfae4a5eb34e0bc5b55d08e8b2caa16e7c5e1a1

Contents

get_narr_cell_numbers	2
get_narr_data	2

Index	4
--------------	----------

get_narr_cell_numbers *get NARR cell numbers for given lat and lon*

Description

get NARR cell numbers for given lat and lon

Usage

```
get_narr_cell_numbers(d)
```

Arguments

d *data.frame* with columns 'lat' and 'lon'

Value

a *data.frame* identical to the input *data.frame* but with appended NARR cell numbers

Examples

```
if (FALSE) {
  d <- data.frame(
    id = c('1a', '2b', '3c'),
    lat = c(39.19674, 39.19674, 39.48765),
    lon = c(-84.582601, -84.582601, -84.610173)
  )

  get_narr_cell_numbers(d)
}
```

get_narr_data *get averaged NARR data for lat, lon, start_date, and end_date*

Description

get averaged NARR data for lat, lon, start_date, and end_date

Usage

```
get_narr_data(
  d,
  type = "coords",
  narr_variables = c("hpbl", "vis", "uwnd.10m", "vwnd.10m", "air.2m", "rhum.2m",
    "prate", "pres.sfc"),
  ...
)
```

Arguments

`d` data.frame with columns 'lat', 'lon', 'start_date', and 'end_date'
`type` type of input data. either 'coords' if starting from lat and lon columns, or 'narr_cell' if starting from narr cell ids.
`narr_variables` a character string of desired narr variables; a subset of c("hpbl", "vis", "uwnd.10m", "vwnd.10m", "air.2m", "rhum.2m", "prate", "pres.sfc")
... further arguments passed onto s3::s3_get_files

Value

a data.frame identical to the input data.frame but with appended average NARR values

Examples

```
if (FALSE) {  
  d <- data.frame(  
    id = c('1a', '2b', '3c'),  
    lat = c(39.19674, 39.19674, 39.48765),  
    lon = c(-84.582601, -84.582601, -84.610173),  
    start_date = as.Date(c("3/8/17", "2/6/12", "6/18/20"), format = "%m/%d/%y"),  
    end_date = as.Date(c("3/15/17", "2/13/12", "6/25/20"), format = "%m/%d/%y")  
  )  
  
  get_narr_data(d, narr_variables = c("air.2m", "rhum.2m"))  
}
```

Index

`get_narr_cell_numbers`, [2](#)
`get_narr_data`, [2](#)