Package 'metsyn'

October 13, 2022

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Title Interface with the Meteo France Synop Data API
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Description Provides an interface with the Meteo France Synop data API (see https://donneespubliques.meteofrance.fr/?fond=produit&id_produit=90&id_rubrique=32 for more information). The Meteo France Synop data are made of meteorological data recorded every three hours on 62 French meteorological stations.
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Depends R (>= $3.1.3$)
Imports foreach, readr, stringr, tibble, utils
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R topics documented:
download_daily_synop 2 make_metdes 2 make_metsta 3 make_metsyn 3
Index

2 make_metdes

Description

The functions download_daily_synop and download_monthly_synop enable to download Meteo France Synop Data described here.

Usage

```
download_daily_synop(path = ".", date, ...)
download_monthly_synop(path = ".", date, ...)
```

Arguments

path	character. Data once downloaded are saved in the folder file.path(path, "data-raw").
date	character. For download_daily_synop, a date in the form "YYYYMMDDHH". For download_monthly_synop, a date in the form "YYYYMM".
	Additional parameters to be passed to download.file.

See Also

make_metsyn.

make_metdes	Creation of the 'metdes' dataset, made of descriptive information on
	the 'metsyn' dataset

Description

The function make_metdes creates the metdes dataset, which contains descriptive information on the metsyn dataset.

The dataset contains the following columns:

- Short_Name: short name of the variable, in French;
- Long_name_French: name of the variable, in French;
- Long_Name_English: currently not provided yet;
- Type: type of the variable (one of character, numeric, integer);
- Unit: physical unit of the variable.

make_metsta 3

Usage

```
make_metdes(path = ".", save_it = FALSE)
```

Arguments

character. Data once created are saved in the folder file.path(path, "data").

save_it logical. If TRUE, the result is saved as an .RData file in the folder file.path(path, "data").

Value

Returns invisibly the tibble created, with 5 columns and 59 rows.

Note

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Source

Meteo France, see here.

See Also

metsyn for the dataset containing Meteo France Synop data; metsta for the dataset on the meteorological stations involved.

Examples

```
## Not run:
make_metdes(save_it = TRUE)
## End(Not run)
```

make_metsta

Creation of the 'metsta' dataset made of Meteo France Synop meteorogical stations

4 make_metsta

Description

The function make_metsta creates the metsta dataset from the file postesSynop.csv downloaded here. make_metsta looks for this file in the file.path(path, "data-raw") folder.

This dataset contains the following columns:

- Id: WMO meteorological station id;
- Name: name of the meteorological station;
- Latitude, Longitude, Altitude: coordinates of the meteorological station.

Usage

```
make_metsta(path = ".", save_it = FALSE)
```

Arguments

```
character. Data once created are saved in the folder file.path(path, "data").

save_it logical. If TRUE, the result is saved as an .RData file in the folder file.path(path, "data").
```

Value

Returns invisibly the tibble created, with 5 columns and 62 rows.

Note

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Source

Meteo France, see here.

See Also

metsyn for the dataset containing Meteo France Synop data; metdes for the dataset which gives some descriptive information on metsyn.

Examples

```
## Not run:
dir.create("data-raw", showWarnings = FALSE)
make_metsta(save_it = TRUE)
## End(Not run)
```

make_metsyn 5

make_metsyn	Creation of the 'metsyn' dataset made of Meteo France Synop data

Description

The function make_metsyn creates the metsyn dataset from the files downloaded with download_monthly_synop. make_metsyn looks for these files in the file.path(path, "data-raw") folder.

This dataset is made of meteorological data recorded every three hours on 62 French meteorological stations.

The columns contained in this dataset are described by the metdes dataset.

Usage

```
make_metsyn(path = ".", save_it = FALSE)
```

Arguments

```
path character. Data once created are saved in the folder file.path(path, "data").

save_it logical. If TRUE, the result is saved as an .RData file in the folder file.path(path, "data").
```

Value

Returns invisibly the tibble created, with 59 columns.

Note

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Source

Meteo France, see here.

See Also

download_monthly_synop; metdes for the dataset which gives some descriptive information on metsyn; metsta for the dataset on the meteorological stations involved.

6 make_metsyn

Examples

Index