Package: msdata (via r-universe)

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Type Package

Title Downloading MeteoSwiss Meteorological Observations via the Geoportal des Bundes (Swiss Federal Government Open Data Portal)

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Depends R (>= 4.5), swissgeo.core (>= 0.0-1), dplyr, parsedate, zoo, sf

AdditionalRepositories https://retostauffer.r-universe.dev

Suggests tinytest, knitr

Description Small package built on top of the `swissgeo.core` package to easily retrieve meteorological observations from automated weather stations of the Swiss meteorological service (MeteoSchweiz).

URL https://codeberg.org/retostauffer/msdata

Website https://retostauffer.codeberg.page/msdata

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`ms_datasets` *MeteoSwiss Datasets*

Description

MeteoSwiss Datasets

Usage

```
ms_datasets(...)
```

Arguments

`...`	forwarded to sg_collections, currently `raw` (logical) and `verbose` (logical).

Author(s)

Reto

`ms_metadata` *MeteoSwiss Datasets*

Description

MeteoSwiss Datasets

Usage

```
ms_metadata(id, language = "en", cachedir = NULL, ndays = 2, ...)

## S3 method for class 'ms_metadata'
plot(x, what = "station_height_masl", labels = "station_abbr", ...)
```

Arguments

id	character, id of the dataset (collection).
language	character, defaults to \"en\".
cachedir	NULL or path to a directory. If set, the metadata will be cached for up to n days (see argument ndays). Note that this means that the language can't be changed.
ndays	numeric, number of days to re-use cached file if cahcedir is set.
...	forwarded to sg_download_assets or the default plot() function.
x	object of class ms_metadata as returned by ms_metadata().
what	character, name of variable to be plotted.
labels	NULL or character, name of the variable used to add labels to the plot.

Value

A list with three elements is returned containing data inventory information ($datainventory; tibble data frame), a list of all parameters with description ($datainventory; tibble data frame), as well as a simple feature data frame with all available stations ($stations).

Author(s)

Reto

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ms_stationdata *Downloading Station Data*

Description

Downloading Station Data

Usage

```
ms_stationdata(
  id,
  stations,
  resolution = c("h", "t", "d", "m", "y"),
  parameters = NULL,
  start = NULL,
  end = NULL,
  cachedir = NULL,
  verbose = FALSE,
  language = "en"
)

## S3 method for class 'ms_stationdata'
print(x, ...)
```

```
## S3 method for class 'ms_stationdata'
head(x, n = 6L, ...)

## S3 method for class 'ms_stationdata'
tail(x, n = 6L, ...)

## S3 method for class 'ms_stationdata'
plot(x, ...)
```

Arguments

`id`	the identifier of the dataset (collection).
`stations`	vector with station abbreviations (station identifiers). Not case sensitive.
`resolution`	character, temporal resolution (`h` = hourly, `t` = 10 minutes, `d` = daily, `m` = monthly, `y` = annual/yearly).
`parameters`	if `NULL` all paramters found will be returned. Can be a character vector with existing parameter shortnames.
`start`	`NULL` or the start date/time.
`end`	`NULL` or end date/time. If both `start` and `end` are `NULL` the most recent observations are returned.
`cachedir`	`NULL` or path to a directory to cache data.
`verbose`	logical, defaults to `FALSE`.
`language`	forwarded to `ms_metadata()`.
`x`	object of class `ms_stationdata`.
`...`	forwarded to `plot.zoo()`.
`n`	integer, number of observations to be returned.

Value

On success a zoo object or a list of zoo objects is returned (if multiple stations are processed at the same time).

Author(s)

Reto

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