

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)

Version 0.1-0

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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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Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libicu-dev libssl-dev libproj-
dev libsqlite3-dev libudunits2-dev

Repository <https://retostauffer.r-universe.dev>

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ms_datasets	<i>MeteoSwiss Datasets</i>
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Description

MeteoSwiss Datasets

Usage

ms_datasets(...)

Arguments

... forwarded to [sg_collections](#), currently raw (logical) and verbose (logical).

Author(s)

Reto

ms_metadata	<i>MeteoSwiss Datasets</i>
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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 <code>"en"</code> .
cachedir	NULL or path to a directory. If set, the metadata will be cached for up to <code>n</code> days (see argument <code>ndays</code>). Note that this means that the language can't be changed.
ndays	numeric, number of days to re-use cached file if <code>cachedir</code> is set.
...	forwarded to sg_download_assets or the default <code>plot()</code> function.
x	object of class <code>ms_metadata</code> as returned by <code>ms_metadata()</code> .
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

ms_stationdata	<i>Downloading Station Data</i>
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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

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