

Package: riem (via r-universe)

May 16, 2026

Type Package

Title Accesses Weather Data from the Iowa Environment Mesonet

Version 1.0.0

Description Allows to get weather data from Automated Surface Observing System (ASOS) stations (airports) in the whole world thanks to the Iowa Environment Mesonet website.

License GPL (>= 2)

URL <https://docs.ropensci.org/riem/>, <https://github.com/ropensci/riem>

BugReports <https://github.com/ropensci/riem/issues>

Imports cli, httr2, jsonlite (>= 0.9.19), lubridate (>= 1.9.0.9000), magrittr, purrr, rlang, tibble

Suggests dplyr, forecast, ggplot2, httptest2, knitr, rmarkdown, testthat (>= 3.0.0), weathermetrics, xts

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2.9000

Config/pak/sysreqs libssl-dev

Repository <https://r-multiverse-staging.r-universe.dev>

Date/Publication 2025-01-31 08:47:35 UTC

RemoteUrl <https://github.com/ropensci/riem>

RemoteRef 5ad33e8c9bd7200d53fd1f24f1b807624fbf0a33

RemoteSha 5ad33e8c9bd7200d53fd1f24f1b807624fbf0a33

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riem_measures

*Get weather data from one station***Description**

Get weather data from one station

Usage

```
riem_measures(
  station,
  date_start,
  ...,
  date_end = as.character(Sys.Date()),
  data = "all",
  elev = FALSE,
  latlon = FALSE,
  report_type = NULL
)
```

Arguments

| | |
|-------------|---|
| station | station ID, see riem_stations() |
| date_start | date of start of the desired data, e.g. "2016-01-01" |
| ... | These dots are for future extensions and must be empty. |
| date_end | date of end of the desired data, e.g. "2016-04-22". Default value is today. # nolint: line_length_linter |
| data | A vector of strings, representing the data columns to return. The available options are: all, tmpf, dwpf, relh, drct, sknt, p01i, alti, mslp, vsby, gust, skyc1, skyc2, skyc3, skyc4, skyl1, skyl2, skyl3, skyl4, wxcodes, ice_accretion_1hr, ice_accretion_3hr, ice_accretion_6hr, peak_wind_gust, peak_wind_drct, peak_wind_time, feel, metar, snowdepth # nolint: line_length_linter Default value is 'all'. |
| elev | If TRUE, the elevation (m) of the station will be included in the output, in an 'elevation' column. # nolint: line_length_linter Default value is 'FALSE'. |
| latlon | Default to 'FALSE' since riem 1.0.0. If 'TRUE', the latitude and longitude of the station will be included in the output, in 'lat' and 'lon' columns. # nolint: line_length_linter Default value is 'FALSE'. |
| report_type | A vector of strings, representing report types to query. The available options are "hfmeter", "routine", "specials". Default value is 'c("routine", "specials")'. |

Details

The data is queried through <https://mesonet.agron.iastate.edu/request/download.phtml>. # nolint: line_length_linter

Examples

```
## Not run:
riem_measures(
  station = "VOHY",
  date_start = "2016-01-01",
  date_end = "2016-04-22"
)

## End(Not run)
```

| | |
|---------------|-----------------------------------|
| riem_networks | <i>Get ASOS and AWOS networks</i> |
|---------------|-----------------------------------|

Description

Get ASOS and AWOS networks

Usage

```
riem_networks()
```

Value

a data.frame (tibble tibble) with the names and codes of available networks.

Examples

```
## Not run:
riem_networks()

## End(Not run)
```

| | |
|---------------|--|
| riem_stations | <i>Get stations of an ASOS network</i> |
|---------------|--|

Description

Get stations of an ASOS network

Usage

```
riem_stations(network)
```

Arguments

| | |
|---------|---|
| network | A single network code, see <code>riem_networks()</code> for finding the code corresponding to a name. |
|---------|---|

Details

You can see a map of stations in a network at <https://mesonet.agron.iastate.edu/request/download.phtml>.

Value

a data.frame (tibble tibble) with the id, name, longitude (lon) and latitude (lat) of each station in the network.

Examples

```
## Not run:  
riem_stations(network = "IN_ASOS")  
  
## End(Not run)
```

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