

Wikiprint Book

Title: Overview of the ecomsUDG.Raccess package

Subject: TracMeteo - udg/ecom/RRPackage

Version: 67

Date: 08/20/2022 07:23:01 AM

Table of Contents

Overview of the ecomsUDG.Raccess package	3
Versions	3
Latest stable release 2.2-5 "SPECS Workshop" (06 Sep 2014)	3
Older versions	3
Development version	4



Overview of the `ecomSUDG.Raccess` package

Since the [R language](#) has been adopted for some key tasks in the EUPORIAS and SPECS projects (including the development of comprehensive validation and statistical-downscaling packages), the `ecomSUDG.Raccess` is envisaged as a user-friendly, R-based interface to the ECOMS User Data Gateway, enabling [authentication?](#) and remote access to the different datasets (seasonal forecasting, observations, reanalysis) currently available. Moreover, `ecomSUDG.Raccess` implements data homogenization (a single vocabulary) and time filtering/aggregation functionality.

The `ecomSUDG.Raccess` package relies on the `rJava` package as an interface to the powerful capabilities of the [Unidata's netCDF Java library](#).

- [Pre-requisites](#)
- [Authentication?](#)
- [Data Homogeneization?](#)
- [Examples?](#)

Versions

The latest versions (stable and/or devel) can be installed directly from [GitHub](#), but please note that the R package [devtools](#) must be installed.

Latest stable release 2.2-5 "SPECS Workshop" (06 Sep 2014)

[?https://github.com/SantanderMetGroup/ecomSUDG.Raccess/releases/tag/v2.2-5](https://github.com/SantanderMetGroup/ecomSUDG.Raccess/releases/tag/v2.2-5)

[User's manual?](#)

To obtain the latest stable release of the `ecomSUDG.Raccess` package (and the associated dependencies), type the following commands from your R console:

```
devtools::install_github(c("SantanderMetGroup/downscaleR.java@stable",
"SantanderMetGroup/downscaleR@stable",
"SantanderMetGroup/ecomSUDG.Raccess@stable"))
```

If attempting the installation from a proxy server and getting an error, please [try this](#).

Older versions

version 2.2-4 (06 Sep 2014)

- Internal changes in imports for compatibility with the new `downscaleR` version 0.4-x

version 2.2-3 (18 Aug 2014)

- Bug fix for 1-dimensional output data queries (i.e. time series at single point locations, without members)

version 2.2-2 (18 Aug 2014)

- New global attributes in output (thanks to Stefan Siegert for this suggestion):
 - dataset: Name of the dataset returned (e.g. "System4_seasonal_15", "NCEP", etc.)
 - source: Name of the dataset
 - URL: URL of the data portal
- Consistent ordering of array dimensions: The output n-dimensional array now preserves the canonical ordering of its dimensions: (member, time, level, lat, lon) (thanks to Stefan Siegert for this suggestion)
- New daily aggregation options: minimum and maximum daily data are now returned when using the `time = "DD"` option for the relevant variables (e.g. "tasmin", "tasmax" ...).

version 2.2-1 (05 Aug 2014)

- Minor enhancements:

- Improved on screen error messages with clearer instructions for error fixing
- The 'runtime' dimension in CFSv2 output data array has been changed to 'member' for better integration with other downscaleR objects and methods.

version 2.2-0 (16 Jul 2014)

- New dependency on R Package downscaleR with inherited features such as:
 - Plotting mean fields
 - Fast Multi-member Interpolation/re-gridding capabilities
 - Many more coming in the next major downscaleR release (bias correction, perfect-prog downscaling methods...)
- On screen messages from the HTTP Java authenticator have been suppressed: Only the strictly relevant information is now displayed
- Automatically checks and warns the user about new available versions on attach
- Other minor bug fixes and enhancements

version 2.1-1 (11 Jul 2014)

- Bug fix accessing surface air temperature and derived variables in System4 with mean daily temporal aggregation (thanks to M.D. Frias for pointing to the error)

version 2.1-0 (8 Jul 2014)

- New extended list of available variables
- NCEP reanalysis included in available datasets
- On-the-fly computation of derived variables
- Support for variables with vertical levels and static (e.g. geopotential surface zs)
- New dependency on downscaleR.java R package containing Java dependencies

version 2.0-0 (16-jun-2014).

- New input/output format
- Access to a extended list of surface variables
- New observational gridded dataset WFDEI
- On-the-fly time filtering/aggregation capabilities
- **version 1.0-0** (17-feb-2014). Access to a limited list of surface variables for System4 and CFSv2 datasets.

Development version

The development version is available at the 'master' branch of the [??github repository](#), but please note that **the development version is unstable and may not be functional**

```
devtools::install_github(c("SantanderMetGroup/downscaleR.java@stable",
"\"SantanderMetGroup/downscaleR@stable\"",
"\"SantanderMetGroup/ecomsUDG.Raccess\""))
```