

## 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 first to ease the installation process.

### Latest stable release 4.0-0 (15 May 2015)

[?See what's new](#)

**Important Note:** Requires upgrading the R package `downscaleR.java` to the new version [?1.0-0](#). Not supported by java versions under 7 (Strongly recommended to use JRE v7x, [see details for installation](#)).

To obtain the latest stable release of the `ecomsUDG.Raccess` package, it is recommended to use the `devtools` utility to install packages from Github. First check that `devtools` is installed on your system, otherwise install it by typing:

```
if (!require("devtools")) install.packages("devtools")
```

Then, the `ecomsUDG.Raccess` package and associated dependencies are installed by entering the following command (it is important to preserve the ordering of the arguments):

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

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

### [?Older versions](#)

#### version 3.0-0 (29 Apr 2015)

- New authentication scheme implemented
- New CFSv2 dataset definition
- Several minor bug fixes and enhancements

#### version 2.2-6 (27 Jan 2015)

- Bug fix in the retrieval of forecast dates beyond the last year of the runtime axis (Reported by Wietse Franssen)
- Enhancement in System4 deaccumulation of precipitation for lead month 0 queries. First day preserved for consistency with non-deaccumulated variables (Suggested by Kathryn Nicklin).
- Documentation update
- Other minor bug fixes and enhancements

#### version 2.2-5 (06 Sep 2014)

- Minor bug fixes and enhancements proposed by the participants during the practical sessions of the [?SPECS Hands-on Training School](#) on Seasonal Forecasting and Downscaling.

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

```
devtools::install_github("SantanderMetGroup/ecomsUDG.Raccess@devel")
```