

## **Wikiprint Book**

**Title: Overview of the ecomsUDG.Raccess package**

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## 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

### Latest stable release ([?see what's new](#))

To obtain the latest stable release of the `ecomSUDG.Raccess` package (and the associated dependencies), type the following commands from your R console (**NOTE:** the R package [?devtools](#) must be installed before):

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

### Development version

The development version is available at the 'master' branch of the [?gitHub repository](#)

### Older versions

- **version 2.0-0** (16-jun-2014). Includes access to a extended list of surface variables, a new observational gridded dataset WFDEI, and on-the-fly time filtering/aggregation capabilities. New input/output formats.
- **version 1.0-0** (17-feb-2014). Access to a limited list of surface variables for System4 and CFSv2 datasets.