

Wikiprint Book

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Table of Contents

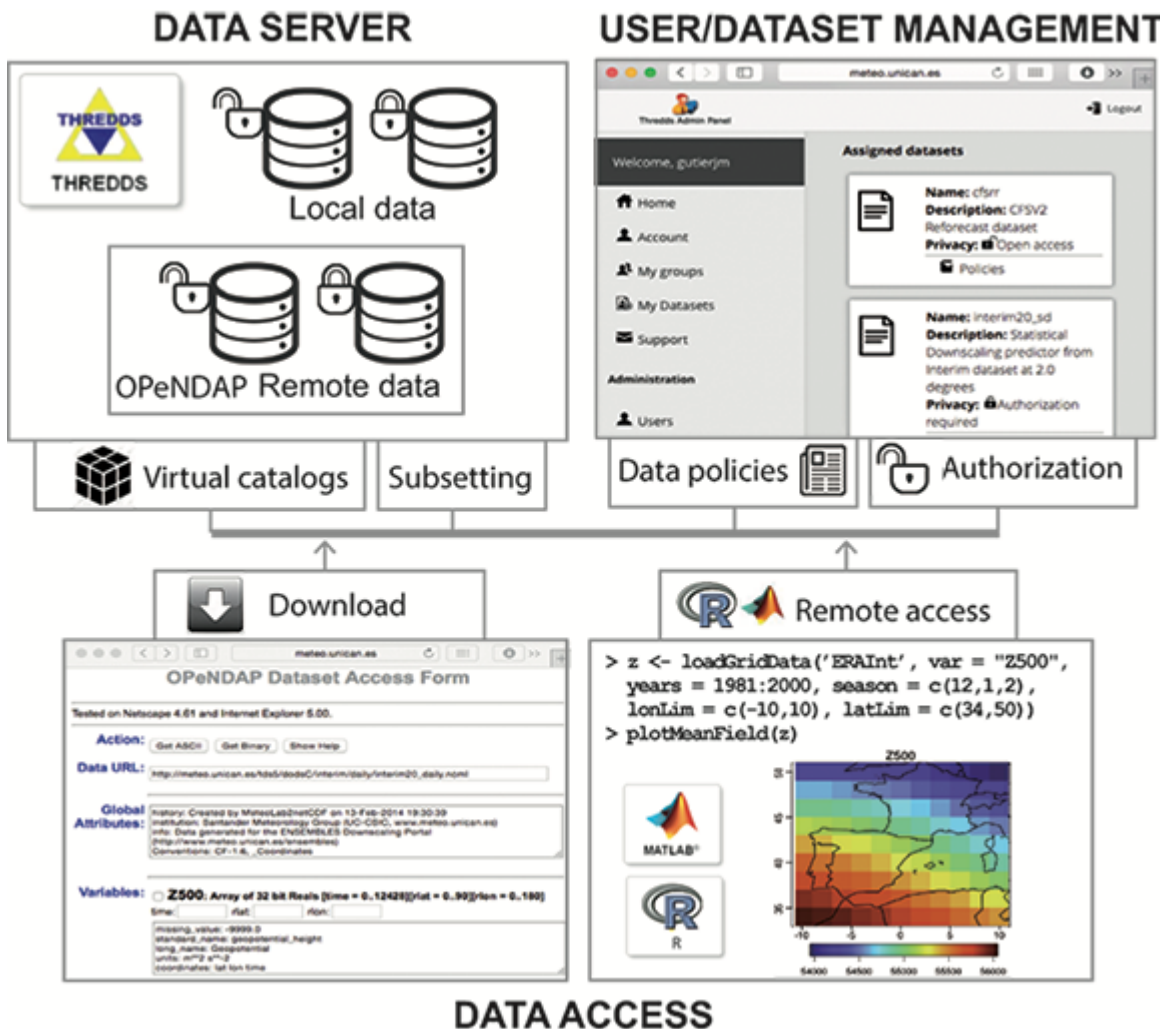
The User Data Gateway (UDG)

3

The User Data Gateway (UDG)

The User Data Gateway (UDG) is the main access point to the different data services provided by the [?Santander Meteorology group](#). The UDG builds on a a THREDDS Data Server, UDG-TDS and on a web portal for user authorization (the THREDDS Administration Portal, UDG-TAP). In addition to the standard web interface to explore and download the datasets, the UDG includes different (R and Matlab) packages for accessing remotely subsets of the data. A schematic view of the UDG is provided in the figure below.

- **Registration:** [?UDG-TAP](#)
 - **Catalog of Datasets:** [?UDG-TDS](#)
 - Accessing Data:** [udg/accessdata?](#)
 - **R package:** [link to Latest stable release?](#)
 - [Other interfaces?](#) to the ECOMS-UDG
- [UDG THREDDS Data Server \(UDG-TDS\)?](#)
- [User registration?](#)
 - [Available datasets?](#)
 - [Available variables?](#)
 - [Exploration via Web?](#)
 - [Interfaces for Data Access?](#)
 - [DAP access?](#)



The UDG supports the following international activities:

- The group [?PULIC_DATA](#) offers a number of datasets which are in the public domain (e.g. WATCH data, NCEP reanalysis, NCEP CFSv2 seasonal forecasting hindcast).
- [?EUPORIAS](#), [?SPECS](#) and [?NACLIM](#) (the European coordination of climate services activities [?ECOMS](#) consortium).
- Global seasonal forecasting datasets from state-of-the-art seasonal forecasting systems (e.g. ECWMF System4). More info [?here](#).
- [?VALUE](#) and [?CORDEX-ESD](#).

 A reduced set of global post-processed predictors from ERA-Interim for statistical downscaling purposes (work in progress to include hires observational gridded datasets over

different european regions). More info [?here](#). The use of UDG requires [?registration](#). Access to data is obtained after requesting membership to the different groups. The data in the PUBLIC_DATA group is freely available to anyone (automatic membership authorization upon request). The data for particular groups/projects requires membership to the particular projects (moderated membership authorization). Besides the web services for subset data downloading, different R and Matlab packages have been developed to remotely access the different datasets. The [ECOMS data access](#) R and Matlab packages allow accessing seasonal forecast data using a single command (see an example here). The [?downscaleR](#) package allows accessing observational and reanalysis datasets using a single command.

The group also supports a node of the Earth System Grid Federation (ESGF) which builds on the UDG-TDS and provides EURO-CORDEX simulations using the WRF model. [?http://data.meteo.unican.es/](http://data.meteo.unican.es/)

All these services build on the [?computing and storage infrastructure](#) of the group.

<p style="background-color: rgb(255, 204, 204); These tools are jointly developed with different communities and are in continuous development (support from SPECS and EUPORIAS projects is acknowledged). </p>