

 The CDS contains observations, global and regional climate reanalyses, global and regional climate projections and seasonal forecasts

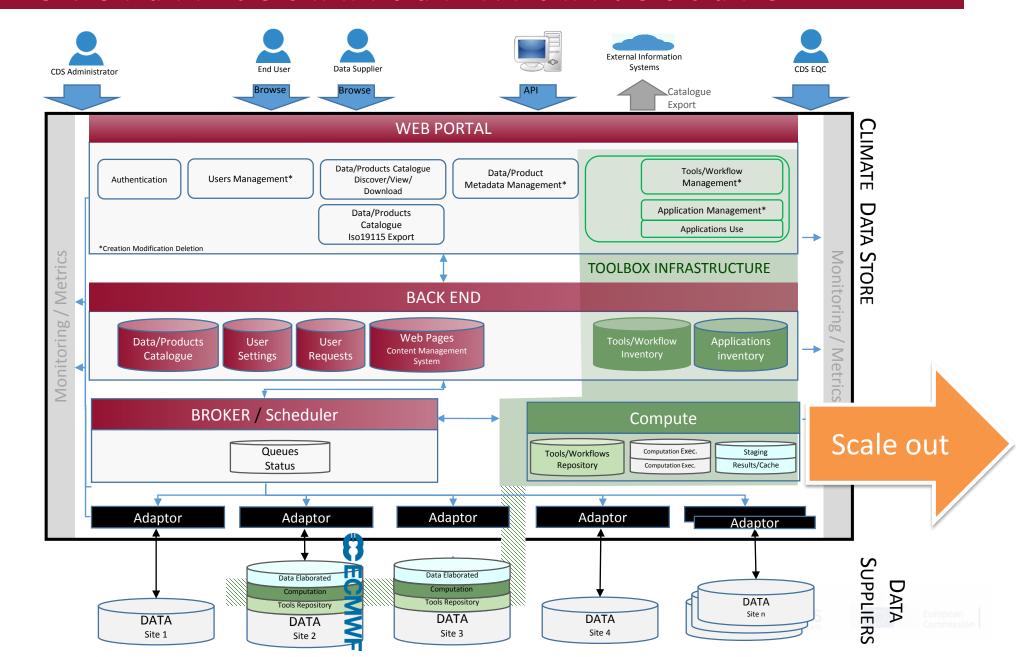
 The CDS is designed as a distributed system, providing improved access to existing datasets through a unified web interface





Change

# CDS - Overall technical Architecture





### C D S - c o n t e n t



#### **Scientific basis:**

- Essential Climate Variables as defined by GCOS
- GCOS Status Report and Implementation Plan
- IPCC, CMIP

**Observations** 

Global estimates of ECVs from satellite and insitu observations

Reprocessed CDRs, reference observations

Support for data rescue, climate data collections

Climate reanalysis

Global atmosphere, ocean, land

Regional reanalysis for Europe

Coupled climate reanalysis for 100 years

Model output

Multi-model seasonal forecast products

Access to CMIP data and products (global and regional)

Reference set of climate projections for Europe





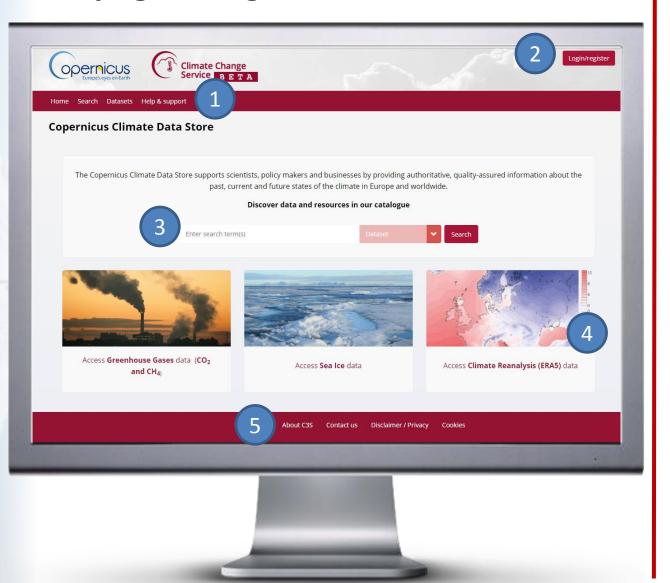






## Climate Data Store-Navigation

## "Home" page and global search function



- ① CDS navigation toolbar
  - Search: facets, textual over the complete catalogue.
  - Datasets: facets, textual restricted to data.
  - Applications:
  - Your requests: user space to manage requests.
  - Help&support: Access to the Copernicus knowledge base.
- Registration (new user) and login (registered users)
- Search engine: free text plus content scope (datesets, applications, CMS, all)
- Direct access to products: pre-filtered access to set of products.
- **⑤** Generic portal toolbar

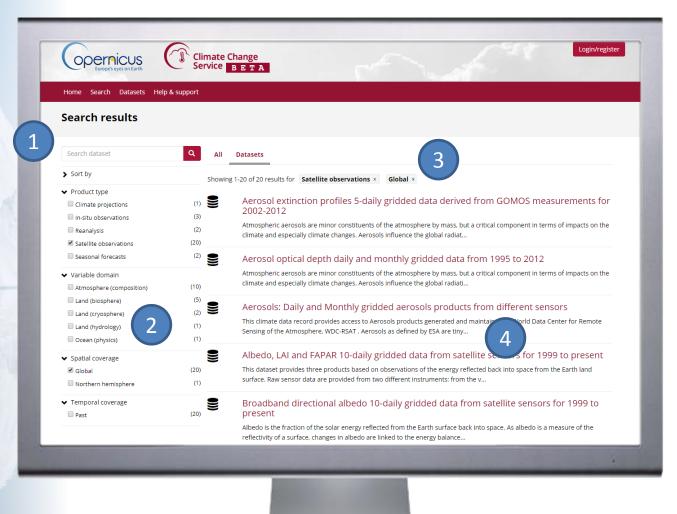




Change

### Climate Data Store-

#### Search "datasets"



- 1 Textual search: free text.
- **Pacetted search**: Multiple criteria, only available combinations are displayed.
- 3 Current searching criteria (acumulative: textual + facetted + tipology of product)
- 4 List of matching products in the catalogue: Navigable by clicking on the title to the product dedicated area.





Change

### Climate Data Store

#### Product "overview"



#### Product toolbar:

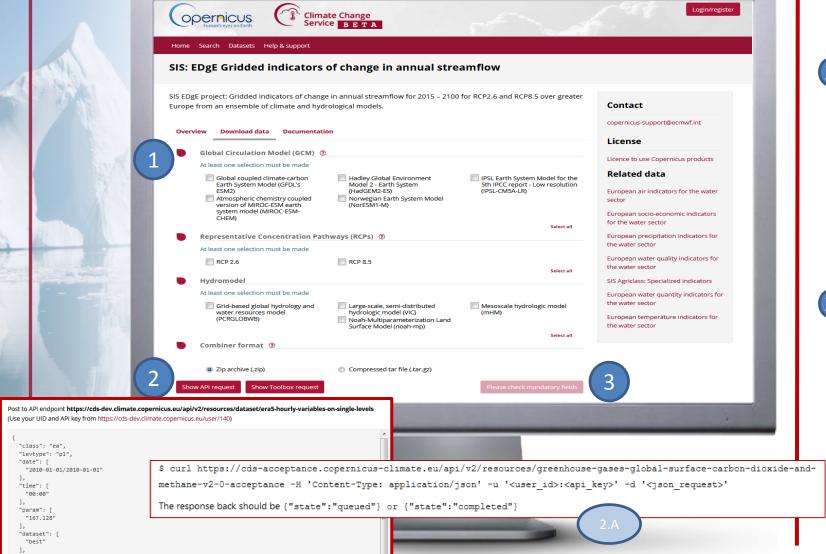
- Overview: Global textual description (abstract)
- Download data: Subsetting form.
- Documentation: Access to detailed documentation (technical guidelines, user manuals, EQC reports)
- Abstract: user readable explanation about the product.
- Detailed information: Metadata about the product
- Related information block:
  - Contact: Mail box for questions about the product.
  - License: All data is freely available but subject to some use licences.
  - Related data: Products sharing facets.





#### Climate Change

#### "Download data" form and API



1 Subsetting form: Set of widgets which alow users to created ad-hoc requests. Forms are dinamically created per each product.

#### 2 Show request functions:

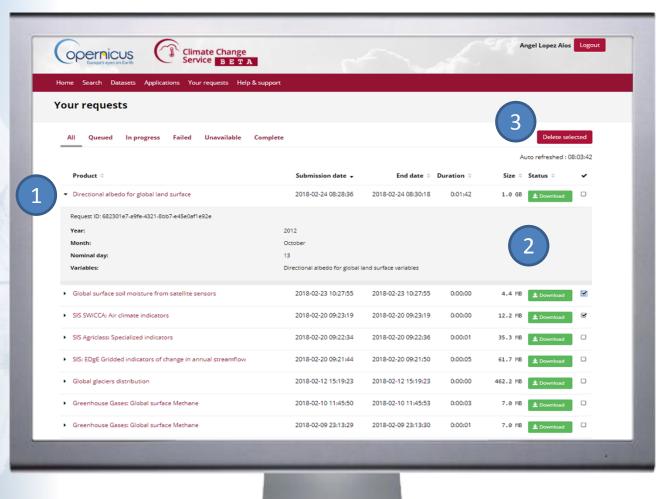
- Show API request: Allow users to have access to the request as to be used by the API.
  - Example of API request.
  - Show toolbox request: Allow users to have access to the request as to be used by the toolbox.
- **3** Submit request: Different status
  - Please check mandatory fields: when the form is not completed.
  - Login/register to submit request:
    User need to be logged in order to be able to submit a request.
  - Submit request: redirect to "your request" page







# "Your request" management



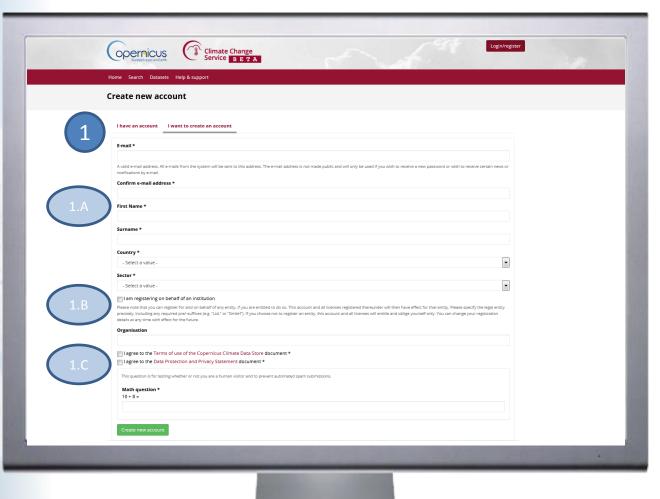
- **Request information**: User have access to submitted requests.
  - Product: Short name of requested data product.
  - Submission/End dates.
  - Duration.
  - Size of the file.
  - Status:
    - Queued: waiting to by dispached to provider.
    - Running/In progress: Already dispatched to provider.
    - Download: data ready to be downloaded.
    - Failed: request migh fail. Error message should be presented.
    - Unavailable: requested result data no longer availble.

European

- **Request information**: By clicking on the left arrow, detailed information about the scope of the request is diplayed.
- 3 **Delete requests**: User can remove old requests from the list by selecting them and clicking on the delete function.



# "Login" and "registration"



- 1 Create new account: At the end of the process a confirmation e-mail should be received (Please check your spam folder just in case).
  - 1.A General user information.
  - Registration on behalf of an organization: requieres of additional information and the acceptance of special T&C.
  - Terms and conditions and Privacy statement.
- 1 Login for registered users





### "Edit profile" and get "API key"



- Registered User: By clicking on the name user navigates to the edit profile page.
- 2 User profile view and edit: user have access to the data already provided just for consultation (view) or edit their personal data at any time (edit)
  - Agreed terms and conditions: list of already accepted terms and conditions.
- 3 API Keys: In this area user can request the necessary keys to make use of the API.
- Documentation about how to invoke the API is also available in swagger.

