



## *Intra-ACP Climate Service and related applications (ClimSA)*

### **Climate Station**

**Data Provider credential creation**

**Version 1.4.0**

**August 2025**

## Abstract / Résumé

This document lists all the products available on Climate Station (or C-Station)

|                          | Name  | Position                               |
|--------------------------|---|--|
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| Version history | Details                                    | Date           |
|-----------------|--|----------------|
| 1.2.1           | Initial Release                            | February 2024  |
| 1.3.0           | Copernicus Global land credentials removal | June 2024      |
| 1.3.1           | New CDS and ADS credentials                | September 2024 |
| 1.3.2           | CDS and ADS redirection to new website     | March 2025     |
| 1.4.0           | New data provider credentials              | August 2025    |

## **Contents**

|  |    |
|--|----|
| Introduction   | 5  |
| 1. Procedure to create credentials   | 6  |
| 1.1 NASA Earth Data  | 6  |
| 1.1.1 LANCE Near Real Time(NRT) Credentials using Username, password & Token | 7  |
| 1.2 Copernicus Climate Change Service - Climate Data Store                   | 8  |
| 1.3 Copernicus Atmosphere Monitoring Service – Atmosphere Data Store         | 11 |
| 1.4 Copernicus Data Space Ecosystem  | 12 |
| 1.5 Copernicus Marine Data Store   | 14 |
| 2. Data Provider   | 16 |
| 2.1 Data providers with credentials  | 16 |
| 2.2 Data providers without credentials                                       | 17 |
| 3. Credentials in ClimSA station   | 18 |

## **ACRONYMS and DEFINITIONS**

|        |  |
|--------|--|
| ADS    | Atmospheric Data Store                             |
| CDS    | Climate Data Store                                 |
| CLMS   | Copernicus Land Monitoring Service                 |
| CS     | Climate Station/ ClimSA Station                    |
| USGS   | United States Geological Survey                    |
| LANCE  | Land, Atmosphere Near-real-time Capability for EOS |
| HTTPS  | Hypertext Transfer Protocol Secure                 |
| API    | Application Programming Interface                  |
| MODIS  | Moderate Resolution Imaging Spectroradiometer      |
| MODAPS | MODIS Adaptive Processing System                   |
| FIRMS  | Fire Information for Resource Management System    |
| JRC    | Joint Research Centre                              |
| GIS    | Geographical Information System                    |

## **INTRODUCTION**

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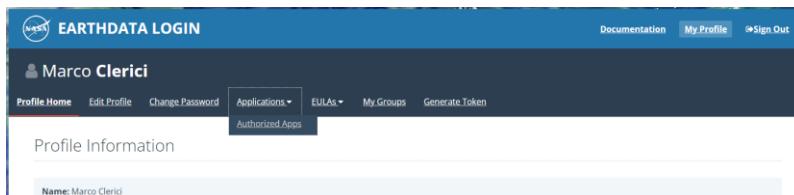
This document explains the procedure to create the credentials in the data provider website and approve the terms & condition then use those credentials either username/password or API key in the ClimSA station.

## 1. PROCEDURE TO CREATE CREDENTIALS

---

### 1.1 NASA EARTH DATA

- Go to the NASA Earth Data website <https://urs.earthdata.nasa.gov/users/new> and fill the registration form ([More details](#)). Please also check “Yes, I'm interested in Meris and ESA Sentinel-3 Data.”
- After registering and login, go to your profile <https://urs.earthdata.nasa.gov/profile> and select “Applications” → Authorized Apps



- Check if you credentials are authorized with the following Apps

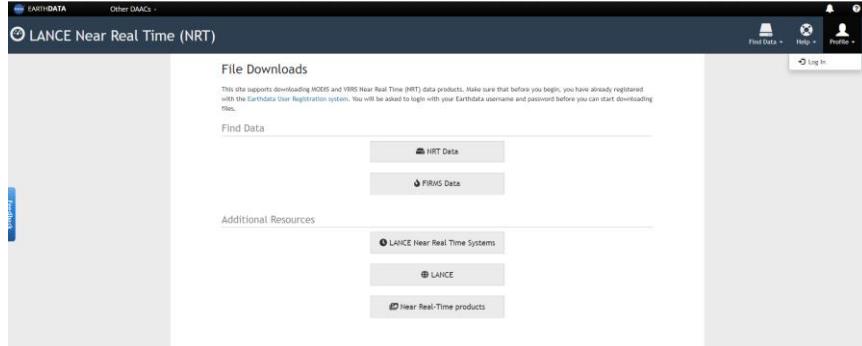
A screenshot of the 'Approved Applications' page. It shows a table of applications that use the user's Earthdata Login profile for authentication. The columns are 'Application Name' and 'Status'. Most applications have a status icon with a blue circle and a white checkmark. One application, 'OB.DAAC User Support Services', has a status icon with a blue circle and a white question mark. Another application, 'OB.DAAC appkey', also has a status icon with a blue circle and a white question mark. At the bottom of the table, there's a blue button labeled 'APPROVE MORE APPLICATIONS'.

- If something is not present in your credentials, then click on “Approve More Application” and approve the same.
- Now use the username and password directly in “Data Provider Credential” dialog box

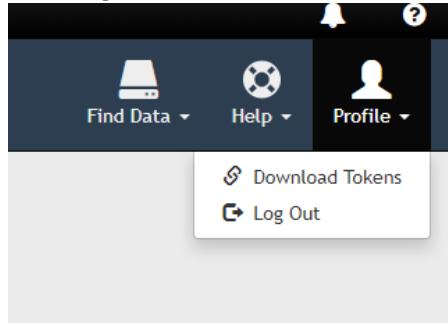
A screenshot of the 'Data Provider credentials' dialog box. It lists various data providers with their provider names, user names, passwords, and HTTP parameters. The 'Earth Data USGS - NASA' row is highlighted with a red rectangle. The 'Save' button is located at the bottom right of the dialog.

### 1.1.1 LANCE Near Real Time(NRT) Credentials using Username, password & Token

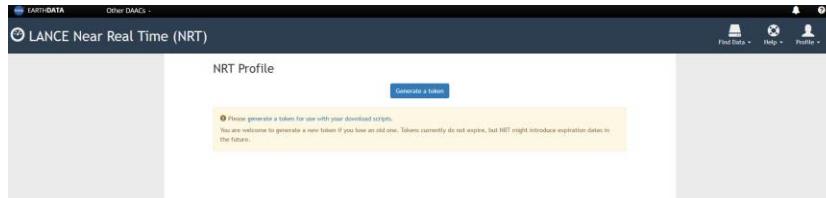
- Go to <https://nrt3.modaps.eosdis.nasa.gov/> and Login. It uses the same credentials as Earth Data which we created in section 2.2



- Once login, click on the “Profile” and select “Download Tokens”



- Then Generate a token



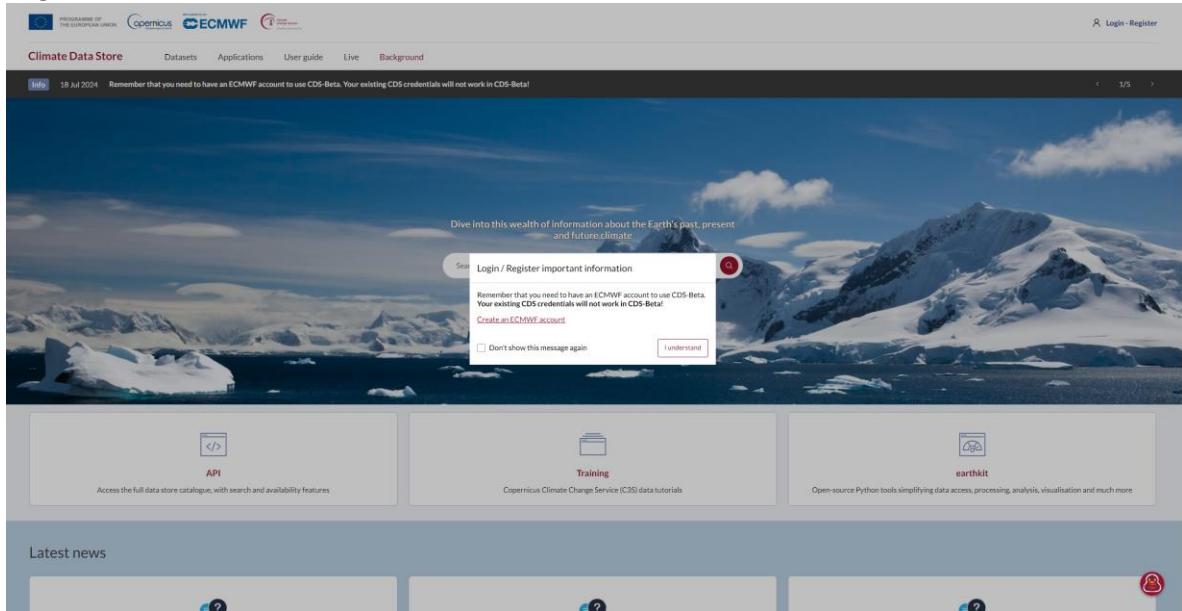
- Once generated then copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Enter username and password created from section 2.2. Also make sure to copy the token to “HTTP parameter” like Authorization: Bearer <token>
- Important Note: The generated token has the expiry date, so keep track to regenerate and update it**

| Data Provider credentials   |            |            |                       |
|---|------------|------------|-----------------------|
| Provider  | User name  | Password   | HTTP parameter        |
| Copernicus S3 from Earth Data - S3NASA<br><a href="#">Register here</a> | [API Key]  |            | Not needed            |
| Earth Data USGS - NASA<br><a href="#">Register here</a>                 | [username] | [password] | Not needed            |
| LANCE Near Real Time (NRT) - LANCE<br><a href="#">Register here</a>     | [username] | [password] | Authorization: Bearer |
| Hydro Web - HYDROWEB<br><a href="#">Register here</a>                   | [username] | [password] | Not needed            |
| Copernicus Global Land - CGLS<br><a href="#">Register here</a>          | [username] | [password] | Not needed            |
| Climate Data Store - CDS<br><a href="#">Register here</a>               | [UID]      | [API Key]  | Not needed            |
| Atmospheric Data Store - ADS<br><a href="#">Register here</a>           | [UID]      | [API Key]  | Not needed            |

[Save](#)

## 1.2 COPERNICUS CLIMATE CHANGE SERVICE - CLIMATE DATA STORE

- Open the new CDS-Beta website <https://cds.climate.copernicus.eu/> Click on the “Login-Register”



- The old CDS credentials will not work in CDS-Beta! Therefore, you have to create an ECMWF account by clicking on “Create an ECMWF account” or “Understand” so that you are redirected to ECMWF page where you can create a new account.

**New user?**  
An ECMWF account enables you to:

- access open data more quickly
- register for events
- enrol on online courses
- request resources
- create and track service requests

To check if you are eligible for more features you can read about [access to forecast data](#) and [access to our computing facilities](#).

**Password Requirements**  
An ECMWF password should comply with the following requirements:

- Not contain the user's account name or part of the user's full name that exceed two consecutive characters
- The password is at least **12 characters long**
- The password contains characters from at least **three** of the following four categories:
  - Uppercase characters (A-Z)
  - Lowercase characters (a-z)
  - Digit (0-9)
  - Non-alphanumeric (for example \$, %, or #)

- Once account is created and logged in, go back to CDS-Beta website(Sometimes it is automatically redirected) you will notice you are already logged in to CDS-Beta and you will notice the popup to fill the Country, Affiliation, Thematic Activities, Sector.
- Most important is to “Accept Terms & Conditions” and click on “Activate your profile”**

**Details**

⚠ Please, complete the form by entering all the mandatory fields

|  |                        |
|--|------------------------|
| <span style="color: red;">⚠ Country</span>             | Country                |
| <span style="color: red;">⚠ Affiliation</span>         | Affiliation            |
| Organisation - Optional                                | Your organisation name |
| <span style="color: red;">⚠ Thematic activities</span> | Thematic activities    |
| <span style="color: red;">⚠ Activity sectors</span>    | Activity sectors       |

**Accept Terms & Conditions**

⚠ You must accept the terms & conditions to activate your profile.

|  |
|--|
| <input type="checkbox"/> <a href="#">Data protection and privacy statement</a>             |
| <input type="checkbox"/> <a href="#">Terms of use of the CEMS Early Warning Data Store</a> |
| <input type="checkbox"/> <a href="#">Terms of use of the Copernicus Climate Data Store</a> |

[Activate your profile](#) [Continue Later](#)

Please provide all mandatory information.

- Click on your “Username” in the right top corner
- In the User Profile page scroll down to check for API key

### API key

Data download requests can be sent programmatically via [our API](#). However, an API key must be provided.

|         |                          |                  |                  |
|---------|--------------------------|------------------|------------------|
| API key | •••••••••••••••••••••••• | <a href="#"></a> | <a href="#"></a> |
|---------|--------------------------|------------------|------------------|

To easily use your API key, you can configure it inside your `.cdsapirc` file:

```
url: https://cds.climate.copernicus.eu/api  
key: ••••••••••••••••••••••••
```

- API key is the password which you have to input in the ClimSA station datasource
- Now go to the dataset website [Seasonal forecast monthly statistics on single levels \(copernicus.eu\)](#) and choose Download tab and scroll to the end
- You will notice “Terms of use” where you can accept the license to use Copernicus Products & Additional license to use non-European contributions.

**Terms of use**

Additional licence to use non European contributions  
You must accept the terms before submitting this request.

[Accept terms](#)

Licence to use Copernicus Products  
You must accept the terms before submitting this request.

[Accept terms](#)

**API request**

Please go to the [documentation page](#) for information as to how to use the CDS API.

[Show API request code](#)

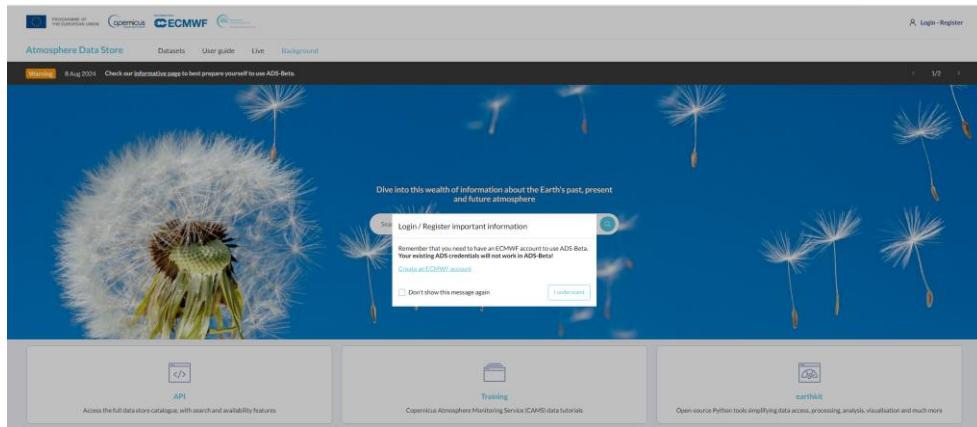
- After accepting the license, copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Copy the API key in the API key area and skip UID. Do not use your username or password

| Data Provider credentials   |            |            |                       |
|---|------------|------------|-----------------------|
| Provider  | User name  | Password   | HTTP parameter        |
| Copernicus S3 from Earth Data - S3NASA<br><a href="#">Register here</a> | [username] | [password] | Not needed            |
| Earth Data USGS - NASA<br><a href="#">Register here</a>                 | [username] | [password] | Not needed            |
| LANCE Near Real Time (NRT) - LANCE<br><a href="#">Register here</a>     | [username] | [password] | Authorization: Bearer |
| Hydro Web - HYDROWEB<br><a href="#">Register here</a>                   | [username] | [password] | Not needed            |
| Copernicus Global Land - CGLS<br><a href="#">Register here</a>          | [username] | [password] | Not needed            |
| Climate Data Store - CDS<br><a href="#">Register here</a>               | [UID]      | [API Key]  | Not needed            |
| Atmospheric Data Store - ADS<br><a href="#">Register here</a>           | [UID]      | [API Key]  | Not needed            |

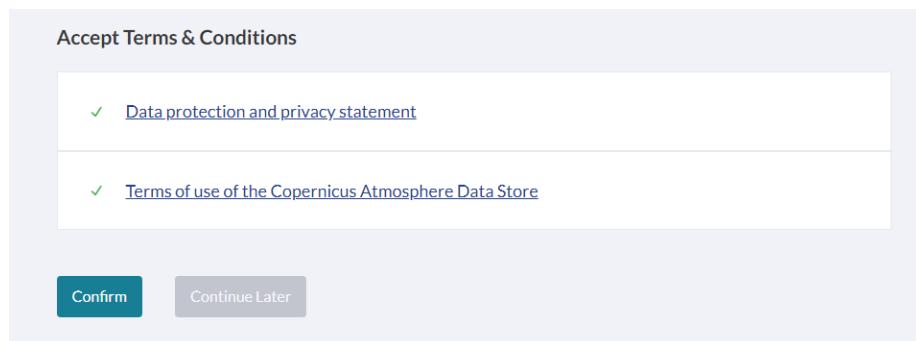
[Save](#)

### 1.3 COPERNICUS ATMOSPHERE MONITORING SERVICE – ATMOSPHERE DATA STORE

- Open the ADS website <https://ads.atmosphere.copernicus.eu/>
- Click on the “Login/Register” & Login to ECMWF account.



- Accept the general Terms & Conditions as in CDS



- Go to one dataset website [CAMS global reanalysis \(EAC4\) \(copernicus.eu\)](https://cams-global-reanalysis.ecmwf.int/) and verify if you accepted the license in bottom of the page.
- Click on your “Username” in the right top corner of the page
- In the User Profile page scroll down to check for User ID and Personal Access Token

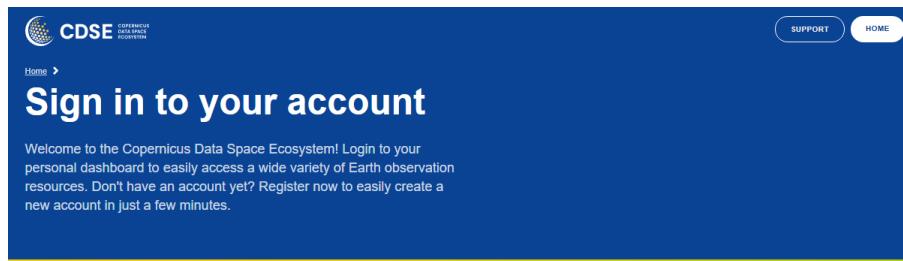
```
url: https://ads.atmosphere.copernicus.eu/api  
key: *****
```

- After accepting the license, copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Copy the API key in the API key area and skip UID. Do not use your username or password

| Data Provider credentials   |            |            |                       |
|---|------------|------------|-----------------------|
| Provider  | User name  | Password   | HTTP parameter        |
| Copernicus S3 from Earth Data - S3NASA<br><a href="#">Register here</a> |            | [API Key]  | Not needed            |
| Earth Data USGS - NASA<br><a href="#">Register here</a>                 | [username] | [password] | Not needed            |
| LANCE Near Real Time (NRT) - LANCE<br><a href="#">Register here</a>     | [username] | [password] | Authorization: Bearer |
| Hydro Web - HYDROWEB<br><a href="#">Register here</a>                   | [username] | [password] | Not needed            |
| Copernicus Global Land - CGLS<br><a href="#">Register here</a>          | [username] | [password] | Not needed            |
| Climate Data Store - CDS<br><a href="#">Register here</a>               | [UID]      | [API Key]  | Not needed            |
| Atmospheric Data Store - ADS<br><a href="#">Register here</a>           | [UID]      | [API Key]  | Not needed            |

#### 1.4 COPERNICUS DATA SPACE ECOSYSTEM

- Open CDSE website and click on register if you don't have the credentials  
<https://identity.dataspace.copernicus.eu/auth/realms/CDSE/account/#/personal-info>



- Fill the information needed to register

### Register form

\* Required fields

**First name \***  
eStation

**Last name \***  
eStation

**Email \***  
cs.climsa@gmail.com

**Password \***  
\*\*\*\*\*

**Confirm password \***  
\*\*\*\*\*

**Country \***  
Italy

**Type of user (you are/your organisation is) \***  
Research & education organisation

**Thematic activity**  
Climate Change

**Purpose of use**  
Research

Accept [terms and conditions](#) and [privacy policy](#)

- Make sure you also select the User Category as Copernicus services and Project Name as CLMS.

Accept [terms and conditions](#) and [privacy policy](#)

Give the permission to contact you at the email address provided during the registration for the purpose of possible user surveys

I am also interested in accessing Copernicus Contributing Missions data  
The approval of your registration request depends on adherence to the [ESA-User license for the use of CCM data](#). Acceptance of the Copernicus Contributing Mission Data Access license framework does not imply the granting of access rights to all data collections. Licenses pertaining to individual collections shall apply only to the extent that ESA has expressly granted the User access rights with respect to the specific collections in question. Registration under the Public user category is automatically approved.

[More information on user categories can be found at \[Copernicus Contributing Missions User Categories\]\(#\)](#)

**User Category \***  
Copernicus\_Services

**Company/Institution \***  
Joint Research Centre

**Copernicus Service Project Name \***  
CLMS

Accept [ESA-User license for the use of CCM data](#) and [CCM Data Access Restrictions](#)

Subscribe to the CDSE monthly mailing to receive the latest updates in your mailbox

[« Back to Login](#)

**REGISTER**



- Go to your email and verify the registration by click on the link provided in the email.

- Copy the **email id** and **password** to “Data Provider Credential” dialog box in Copernicus Data Space Ecosystem row under portfolio of ClimSA station.

| Provider   | User name  | Password   | HTTP parameter        |
|--|------------|------------|-----------------------|
| Copernicus S3 from Earth Data - S3NASA<br><a href="#">Register here</a>        |            | [API Key]  | Not needed            |
| Earth Data USGS - NASA<br><a href="#">Register here</a>                        | [username] | [password] | Not needed            |
| LANCE Near Real Time (NRT) - LANCE<br><a href="#">Register here</a>            | [username] | [password] | Authorization: Bearer |
| Copernicus Marine Data Store - CMEMS<br><a href="#">Register here</a>          | [username] | [password] | Not needed            |
| <b>Copernicus Data Space Ecosystem - CDSE</b><br><a href="#">Register here</a> | [Email]    | [password] | Not needed            |
| Climate Data Store - CDS<br><a href="#">Register here</a>                      | [UID]      | [API Key]  | Not needed            |
| Atmospheric Data Store - ADS<br><a href="#">Register here</a>                  | [UID]      | [API Key]  | Not needed            |

[Save](#)

## 1.5 COPERNICUS MARINE DATA STORE

- Open Copernicus Marine service register website <https://data.marine.copernicus.eu/register> and fill the details to register

You must be a registered user in order to download the data made available on this website.

Please fill in all fields.

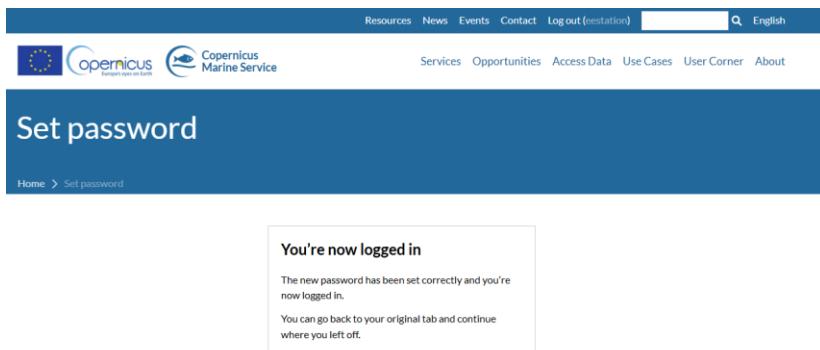
|                      |           |
|----------------------|-----------|
| First name           | Last name |
| Email                |           |
| Country              | ▼         |
| Type of organisation | ▼         |
| Blue markets         | ▼         |

I accept the terms and conditions  
 I accept the privacy policy  
 I wish to subscribe to the **Copernicus Marine Newsletter** (optional)

[Register](#) or Log in

Any questions? Send us a note through the chat!

- You will receive an email to set the password



- Your username is display on top of the page

- Copy the **username** and **password** to “Data Provider Credential” dialog box in Copernicus Marine Data Store row under portfolio of ClimSA station.

| Data Provider credentials   |            |                                  |                       |
|---|------------|----------------------------------|-----------------------|
| <small>Please read carefully the instructions for each provider in the Data Provider Registration Manual, which you can find under the Help page!</small> <a href="#">Go to Help page</a> |            | <input type="button" value="C"/> |                       |
| Provider  | User name  | Password                         | HTTP parameter        |
| Copernicus S3 from Earth Data - S3NASA<br><a href="#">Register here</a>   | [API Key]  |                                  | Not needed            |
| Earth Data USGS - NASA<br><a href="#">Register here</a>   | [username] | [password]                       | Not needed            |
| LANCE Near Real Time (NRT) - LANCE<br><a href="#">Register here</a>   | [username] | [password]                       | Authorization: Bearer |
| Copernicus Marine Data Store - CMEMS<br><a href="#">Register here</a>   | [username] | [password]                       | Not needed            |
| Copernicus Data Space Ecosystem - CDSE<br><a href="#">Register here</a>   | [Email]    | [password]                       | Not needed            |
| Climate Data Store - CDS<br><a href="#">Register here</a>   | [UID]      | [API Key]                        | Not needed            |
| Atmospheric Data Store - ADS<br><a href="#">Register here</a>   | [UID]      | [API Key]                        | Not needed            |
| <input type="button" value="Save"/>   |            |                                  |                       |

## 2. DATA PROVIDER

---

This section describes the list of data provider

### 2.1 DATA PROVIDERS WITH CREDENTIALS

| Product/<br>Version  | Data Source ID                       | DataProvider / URL  | Username:Password |
|----------------------|--------------------------------------|---|-------------------|
| modis-chla/v2013.1   | GSFC:CGI:MODIS :CHLA:1D              | <b>Earthdata USGS</b><br><a href="https://oceandata.sci.gsfc.nasa.gov/">Earthdata Login User Registration (nasa.gov)</a><br><a href="https://oceandata.sci.gsfc.nasa.gov/">https://oceandata.sci.gsfc.nasa.gov/</a> | Need Credentials  |
| modis-kd490/v201 2.0 | GSFC:CGI:MODIS :KD490:1D             |   |                   |
| modis-par/v2012.0    | GSFC:CGI:MODIS :PAR:1D               |   |                   |
| modis-sst/v2013.1    | GSFC:CGI:MODIS :SST:1D:NEW           |   |                   |
| olci-wrr/V02.0       | CMEMS_API_S3A B_CHLA_GRADI ENT_NRT   | <b>Copernicus Marine Data Store</b><br><a href="https://data.marine.copernicus.eu/">https://data.marine.copernicus.eu/</a>  | Need Credentials  |
| modis-firms/v6.1     | MODAPS:EOSDIS :FIRMS:C61:NAS A:HTTP  | <b>LANCE Near Real Time(NRT)</b><br><a href="https://nrt3.modaps.eosdis.nasa.gov/">https://nrt3.modaps.eosdis.nasa.gov/</a>   | Need Credentials  |
| CDS API              |                                      | <b>Climate Data Store</b><br><a href="https://cds.climate.copernicus.eu/">https://cds.climate.copernicus.eu/</a>  | Need credentials  |
| ADS API              |                                      | <b>Atmospheric Data Store</b><br><a href="https://ads.atmosphere.copernicus.eu/">https://ads.atmosphere.copernicus.eu/</a>  | Need credentials  |
| vgt-dmp/olci-v1.0    | CDSE_ODATA_C LMS_OLCI-V1.0_DMP       | <b>Copernicus Data Space Ecosystem</b><br><a href="https://dataspace.copernicus.eu/">https://dataspace.copernicus.eu/</a>   | Need credentials  |
| vgt-lai/olci-v1.0    | CDSE_ODATA_C LMS_OLCI-V1.0_LAI       |   |                   |
| vgt-ndvi/olci-v2.0   | CDSE_ODATA_C LMS_OLCI-V2.0_NDVI      |   |                   |
| vgt-fapar/olci-v1.0  | CDSE_ODATA_C LMS_OLCI-V1.0_FAPAR     |   |                   |
| vgt-fcover/olci-v1.0 | CDSE_ODATA_C LMS_OLCI-V1.0_FCOVER    |   |                   |
| ascat-swi/V3.1       | CDSE_ODATA_C LMS_METOP_AS CAT-V4_SWI |   |                   |

## 2.2 DATA PROVIDERS WITHOUT CREDENTIALS

| Product/<br>Version           | Data Source ID                  | URL   | Username:Password |
|-------------------------------|---------------------------------|---|-------------------|
| arc2-rain/2.0                 | CPC:NOAA:RAIN:<br>ARC2          | <a href="https://ftp.cpc.ncep.noaa.gov/fews/fewsdata/africa/arc2/geotiff/">https://ftp.cpc.ncep.noaa.gov/fews/fewsdata/africa/arc2/geotiff/</a>   | Not needed        |
| gdo-rdri<br>gdo-sm<br>gdo-tws |                                 | <a href="https://estation.jrc.ec.europa.eu/eStation2/datamanagement/getproductarchive?">https://estation.jrc.ec.europa.eu/eStation2/datamanagement/getproductarchive?</a>   | Not needed        |
| chirps-<br>rfe/2.0            | UCSB:CHIRPS:DE<br>KAD:2.0:HTTP  |   |                   |
| chirps-<br>rfe/2.0            | UCSB:CHIRPS:PR<br>EL:DEKAD:HTTP | <a href="https://data.chc.ucsb.edu/products/CHIRPS-2.0/global_dekad/tifs/">https://data.chc.ucsb.edu/products/CHIRPS-2.0/global_dekad/tifs/</a>   | Not needed        |
| cpc-sm/1.0                    | CPC:NCEP:NOAA<br>:SM            | <a href="ftp://ftp.cpc.ncep.noaa.gov/wd51yf/global_monthly/gri_dded_binary/current_month/">ftp://ftp.cpc.ncep.noaa.gov/wd51yf/global_monthly/gri_dded_binary/current_month/</a>   | Not needed        |
| cdas-month-<br>prcp           | IRI:NOAA:PRCP:<br>MONTH         | <a href="http://iridl.ldeo.columbia.edu/">http://iridl.ldeo.columbia.edu/</a>   | Not needed        |
| fewsnet-<br>rfe/2.0           | USGS:EARLWRN:<br>FEWSNET        | <a href="https://edcintl.cr.usgs.gov/downloads/sciweb1/shared/fews/web/africa/dekadal/rfe/dekadrainfall/downloads/dekadal/">https://edcintl.cr.usgs.gov/downloads/sciweb1/shared/fews/web/africa/dekadal/rfe/dekadrainfall/downloads/dekadal/</a> | Not needed        |
| rain-<br>spi/V1.0             | JRC:MARS:SPI:3<br>MON           | <a href="https://agricultural-production-hotspots.ec.europa.eu/data/">https://agricultural-production-hotspots.ec.europa.eu/data/</a>   | Not needed        |
| rain-<br>spi/V1.0             | JRC:MARS:SPI:1<br>MON           | <a href="https://agricultural-production-hotspots.ec.europa.eu/data/">https://agricultural-production-hotspots.ec.europa.eu/data/</a>   | Not needed        |
| tamsat-<br>rfe/3.0            | READINGS:TAMS<br>AT:3.0:10D:NC  | <a href="https://www.tamsat.org.uk/public_data/">https://www.tamsat.org.uk/public_data/</a>   | Not needed        |
| tamsat-<br>rfe/3.1            | READINGS:TAMS<br>AT:3.1:10D:NC  | <a href="https://www.tamsat.org.uk/public_data/">https://www.tamsat.org.uk/public_data/</a>   | Not needed        |
| wsi-hp/V1.0                   | JRC:MARS:WSI:C<br>ROP           | <a href="https://agricultural-production-hotspots.ec.europa.eu/data/indicators_wsi/wsi_hp/">https://agricultural-production-hotspots.ec.europa.eu/data/indicators_wsi/wsi_hp/</a>   | Not needed        |
| wsi-hp/V1.0                   | JRC:MARS:WSI:P<br>ASTURE        | <a href="https://agricultural-production-hotspots.ec.europa.eu/data/indicators_wsi/wsi_hp/">https://agricultural-production-hotspots.ec.europa.eu/data/indicators_wsi/wsi_hp/</a>   | Not needed        |
| Online<br>eStation2           |                                 | <a href="https://estation.jrc.ec.europa.eu/eStation2/datamanagement/getproductarchive">https://estation.jrc.ec.europa.eu/eStation2/datamanagement/getproductarchive</a>   | Not needed        |

### **3. CREDENTIALS IN CLIMSA STATION**

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Please fill the credentials below and take a print out of it. Provide this print out to the administrator or in charge of the ClimSA station. In case of reinstallation, credentials saved in the DB will be lost, so that they can copy, paste the credentials back to “Data Provider Credential” dialog box under portfolio of ClimSA station.

| Data Provider              | Username   | Password   | HTTP Parameter                |
|----------------------------|------------|------------|-------------------------------|
| Earthdata USGS             | <username> | <password> | Not needed                    |
| CMEMS                      | <username> | <password> | Not needed                    |
| LANCE Near Real Time (NRT) | <username> | <password> | Authorization: Bearer <Token> |
| Copernicus Global Land     | <username> | <password> | Not needed                    |
| CDSE                       | <email>    | <password> | Not needed                    |
| Climate Data Store         | <UID>      | <API Key>  | Not needed                    |
| Atmospheric Data Store     | <UID>      | <API Key>  | Not needed                    |