

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

Climate Station

Data Provider credential creation

Version 1.2.1

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

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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

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. DATA PROVIDER

This section describes the list of data provider

1.1 DATA PROVIDERS WITH CREDENTIALS

Product/ Version	Data Source ID	DataProvider / URL	Username:Password
modis- chla/v2013.1	GSFC:CGI:MODIS :CHLA:1D	Earthdata USGS Earthdata Login User Registration (nasa.gov) https://oceandata.sci.gsfc.nasa.gov/	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	GSFC:CGI:OLCI:L 3:S3B:CHLA:1D	Copernicus S3 from Earth Data https://oceandata.sci.gsfc.nasa.gov/	Need Credentials
olci- wrr/V02.0	GSFC:CGI:OLCI:L 3:S3B:CHLA:1D		
modis- firms/v6.1	MODAPS:EOSDIS :FIRMS:C61:NAS A:HTTP	LANCE Near Real Time(NRT) https://nrt3.modaps.eosdis.nasa.gov/	Need Credentials
vgt- dmp/olci- v1.0	PDF:GLS:OLCI- V1.0:DMP	Copernicus Global Land https://land.copernicus.vgt.vito.be/PDF/datapool/	Need credentials
vgt-lai/olci- v1.0	PDF:GLS:OLCI- V1.0:LAI		
vgt-ndvi/ olci-v2.0	PDF:GLS:OLCI- V2.0:NDVI		
vgt-fapar/ olci-v1.0	PDF:GLS:OLCI- V1.0:FAPAR		
vgt-fcover/ olci-v1.0	PDF:GLS:OLCI- V1.0:FCOVER		
ascat- swi/V3.1	PDF:GLS:METOP: ASCAT-V3.1:SWI		
theia-wl/1.0	THEIA:HYDRO:L EGOS:WATERLE VEL	Hydro Web http://hydroweb.theia-land.fr/hydroweb/	Need credentials
CDS API		Climate Data Store https://cds.climate.copernicus.eu/	Need credentials
ADS API		Atmospheric Data Store https://ads.climate.copernicus.eu/	Need credentials

1.2 DATA PROVIDERS WITHOUT CREDENTIALS

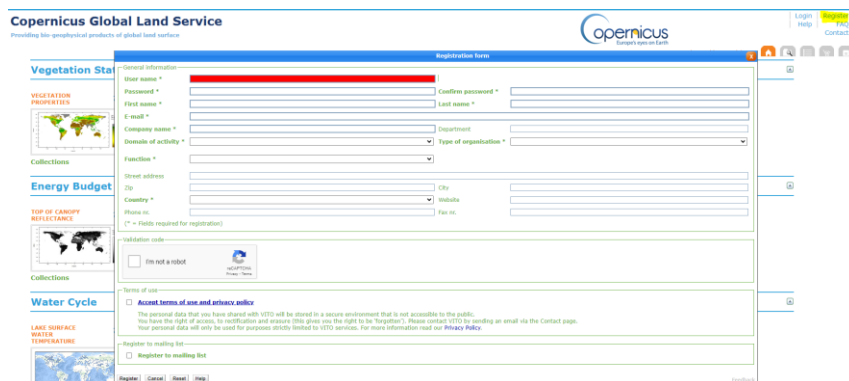
Product/ Version	Data Source ID	URL	Username:Password
arc2-rain/2.0	CPC:NOAA:RAIN: ARC2	https://ftp.cpc.ncep.noaa.gov/fews/fewsdata/africa/arc2/geotiff/	Not needed
gdo-rdri gdo-sm gdo-tws		https://estation.jrc.ec.europa.eu/eStation2/datamanagement/getproductarchive?	Not needed
chirps- rfe/2.0	UCSB:CHIRPS:DE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

2. PROCEDURE TO CREATE CREDENTIALS

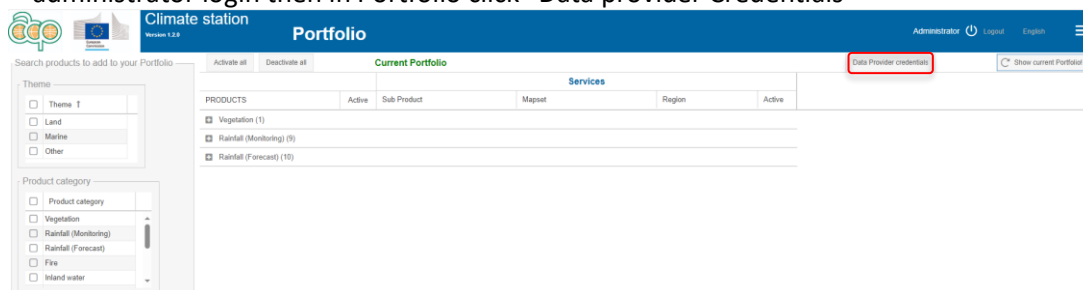
2.1 COPERNICUS GLOBAL LAND SERVICE

2.1.1 Credentials using Username, password (current mechanism)

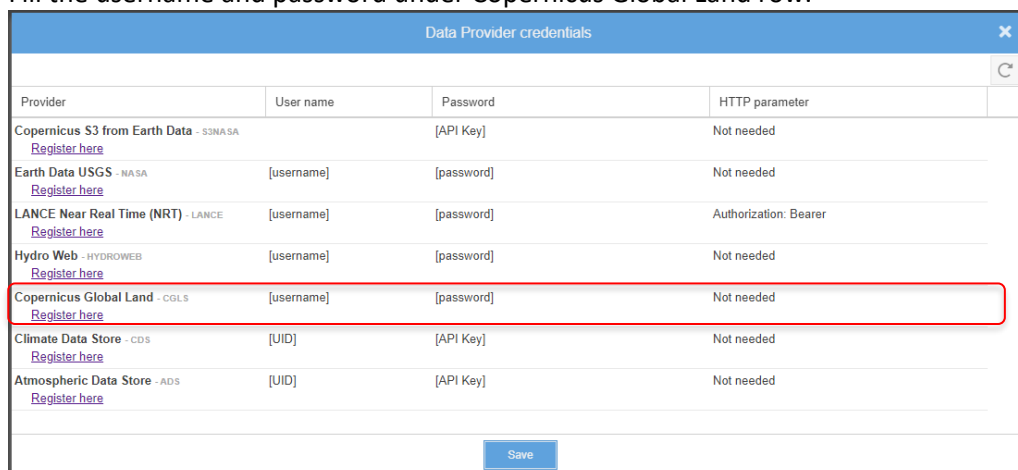
- Go to the Copernicus Global Land Service website and create credentials by clicking on register option <https://land.copernicus.vgt.vito.be/PDF/portal/Application.html#Home>



- Fill all the information. Check also “Register to mailing list” so that any information regarding the changes are notified.
- Once you receive the mail regarding the registration confirm it.
- Now use the credentials in the ClimSA station by opening the interface and login using administrator login then in Portfolio click “Data provider Credentials”



- Fill the username and password under Copernicus Global Land row.



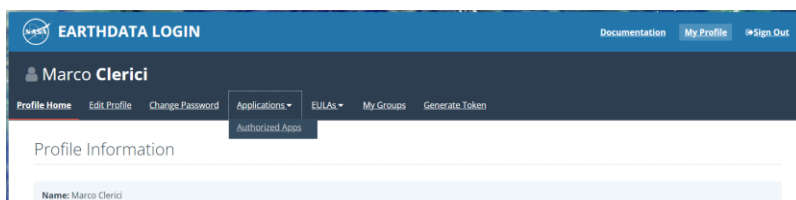
Provider	User name	Password	HTTP parameter
Copernicus S3 from Earth Data - S3NASA Register here		[API Key]	Not needed
Earth Data USGS - NASA Register here	[username]	[password]	Not needed
LANCE Near Real Time (NRT) - LANCE Register here	[username]	[password]	Authorization: Bearer
Hydro Web - HYDROWEB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

2.1.2 Credentials using CLMS new API (New method)

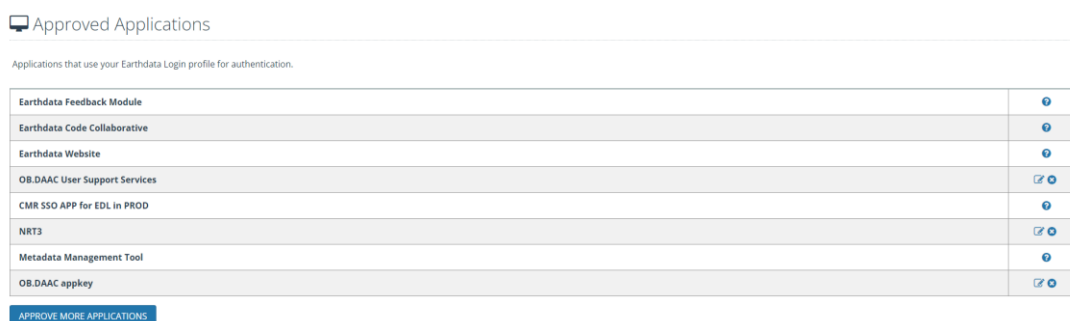
The procedure to retrieve data from CLMS is provided in the link below. Though we don't use this approach currently, we might have to change them in the upcoming release.
<https://land.copernicus.eu/en/how-to-guides/how-to-download-spatial-data/how-to-download-m2m>

2.2 NASA EARTH DATA

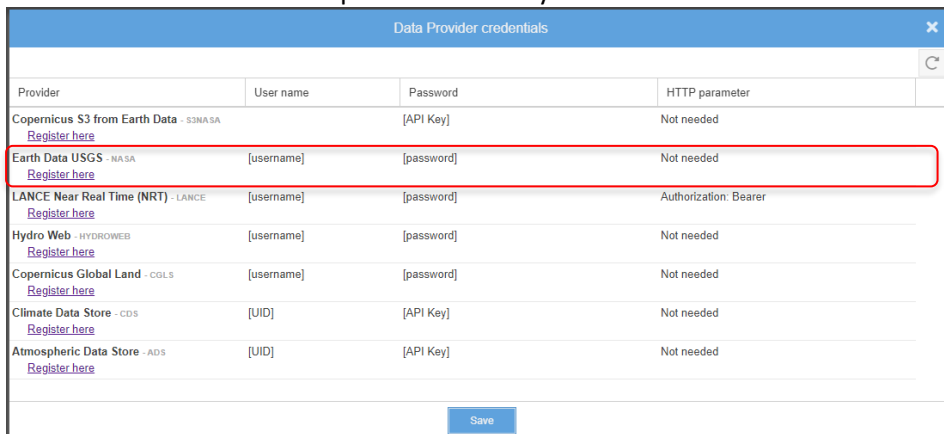
- Go to the NASA Earth Data website <https://urs.earthdata.nasa.gov/users/new> and fill the registration form ([More details](#)). Please also check “Yes, I'm interested in Meris and ESA Sentinel-3 Data.”
- After registering and login, go to your profile <https://urs.earthdata.nasa.gov/profile> and select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



- Check if you credentials are authorized with the following Apps



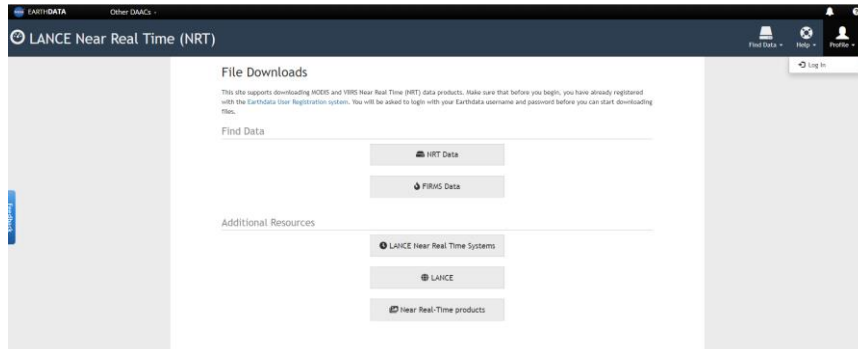
- If something is not present in your credentials then click on “Approve More Application” and approve the same.
- Now use the username and password directly in “Data Provider Credential” dialog box



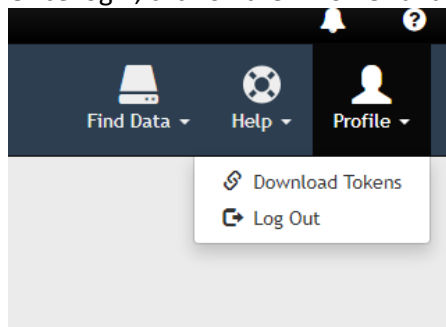
- But we are slightly different way to use Earth Data credentials for LANCE Near Real Time (NRT) & Copernicus Sentinel3 Earth Data. Find the procedures below.

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

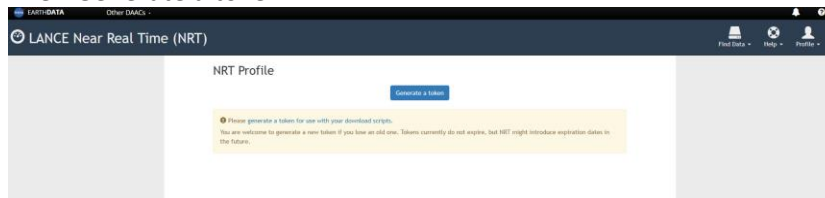
- Go to <https://nrt3.modaps.eosdis.nasa.gov/> and Login. It uses the same credentials as Earth Data which we created in section 2.2



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



- Then Generate a token



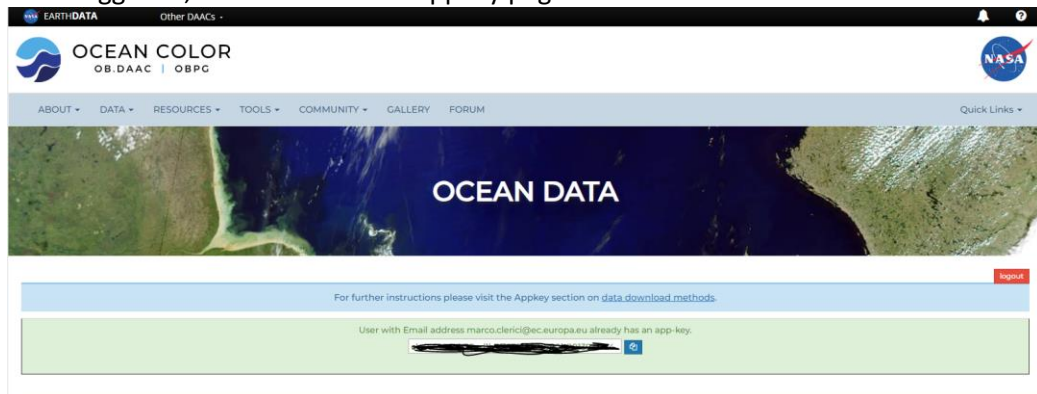
- Once generated then copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Enter username and password created from section 2.2. Also make sure to copy the token to “HTTP parameter” like Authorization: Bearer <token>

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

Save

2.2.2 Copernicus Sentinel 3 data from NASA Earth data Credentials using Appkey

- Go to <https://oceandata.sci.gsfc.nasa.gov/appkey/> and login using the same Earth Data credentials.
- Once logged in, it redirects to the Appkey page.



- Use this Appkey in the password column of the “Data Provider Credential” table.

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

- For more details https://oceancolor.gsfc.nasa.gov/data/download_methods/

2.3 COPERNICUS CLIMATE CHANGE SERVICE - CLIMATE DATA STORE

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

The screenshot shows the Copernicus Climate Change Service website. At the top, there are logos for the European Union, Copernicus, ECMWF, and the Climate Change Service. A navigation bar includes links for Home, Search, Datasets, Applications, Toolbox, Support, and Live. A 'Login/Register' button is in the top right. Below the navigation bar, there's a section titled 'Create new account' with buttons for 'Log in', 'Create new account', and 'Reset your password'. A message states: 'A new CDS soon to be launched - expect some disruptions and watch this page for latest or. Thank you.' The registration form includes fields for Email, First name, Surname, Country (a dropdown menu), and Sector (a dropdown menu).

- Once account is created, login with the credentials & click on your username

The screenshot shows the 'User profile' page for 'GMES Africa'. The top navigation bar is similar to the previous page but includes a 'Logout' button. The main heading is 'User profile : GMES Africa'. Below it are 'View' and 'Edit' buttons. A message states: 'A new CDS soon to be launched - expect some disruptions and watch this page for latest or. Thank you.' The profile details are listed in a table-like format:

First name	GMES
Surname	Africa
Country	Italy
Sector	Public sector/Governmental
I am registering on behalf of an organisation	✓
Organisation	Joint Research Centre, EC

- In the User Profile page scroll down to the API key section

API key

Data download requests can be sent programmatically via our API. However, a user ID and API key must be sent using HTTP basic authentication.

UID

[REDACTED]

API Key

[REDACTED]-11c6-4f32-a697-83b07a08a108

- UID is the username and API key is the password which you have to input in the ClimSA station datasource
- Now go to the dataset website <https://cds.climate.copernicus.eu/cdsapp#!/dataset/seasonal-monthly-single-levels?tab=form> 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.

The screenshot shows the 'Terms of use' section. It has a title 'Terms of use' and two items, each with a checkmark and a 'View terms' link:

- ✓ Licence to use Copernicus Products [View terms](#)
- ✓ Additional licence to use non European contributions [View terms](#)

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

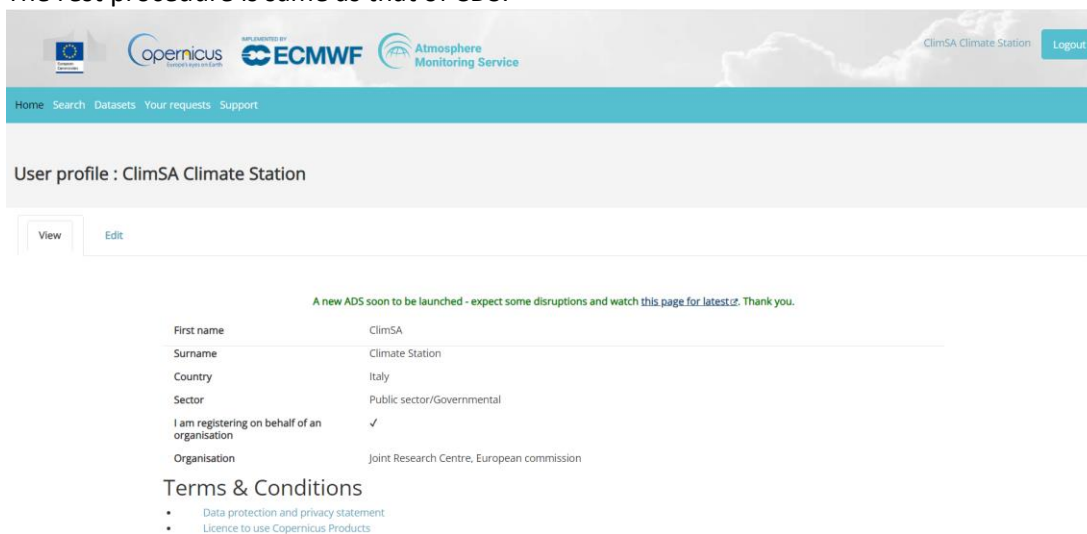
Data Provider credentials

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

Save

2.4 COPERNICUS ATMOSPHERE MONITORING SERVICE – ATMOSPHERE DATA STORE

- Open the ADS website <https://ads.atmosphere.copernicus.eu/>
- Click on the “Login/Register” & Create new account
- The rest procedure is same as that of CDS.



User profile : ClimSA Climate Station

View Edit

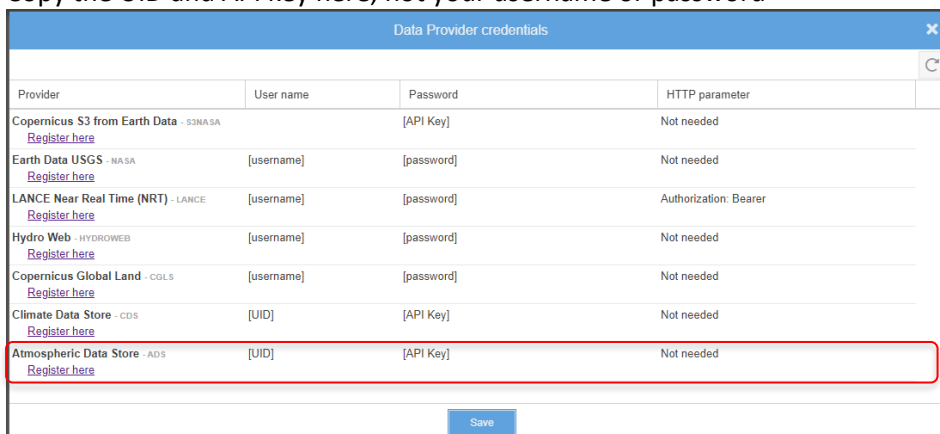
A new ADS soon to be launched - expect some disruptions and watch this page for latest or. Thank you.

First name: ClimSA
Surname: Climate Station
Country: Italy
Sector: Public sector/Governmental
I am registering on behalf of an organisation: ☒
Organisation: Joint Research Centre, European commission

Terms & Conditions

- Data protection and privacy statement
- Licence to use Copernicus Products

- Go to one dataset website <https://ads.atmosphere.copernicus.eu/cdsapp#!/dataset/cams-global-reanalysis-eac4?tab=form> and accept the license in bottom of the page.
- After accepting the license, copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Copy the UID and API key here, not your username or password



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

Save

3. CREDENTIALS IN CLIMSA STATION

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
Copernicus S3 from Earth Data		<APPkey>	Not needed
LANCE Near Real Time (NRT)	<username>	<password>	Authorization: Bearer <Token>
Copernicus Global Land	<username>	<password>	Not needed
Hydro Web	<username>	<password>	Not needed
Climate Data Store	<UID>	<API Key>	Not needed
Atmospheric Data Store	<UID>	<API Key>	Not needed