Intra-ACP Climate Service and related applications (ClimSA)

Climate Station

Data Provider credential creation

Version 1.4.0

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

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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

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

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
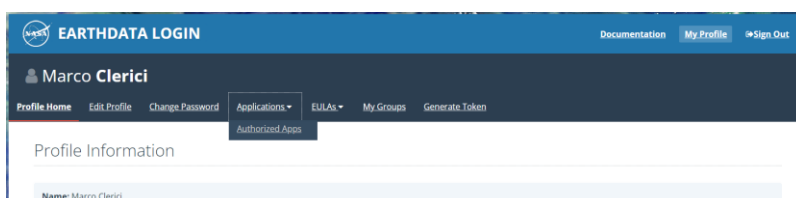
- Check if you credentials are authorized with the following Apps
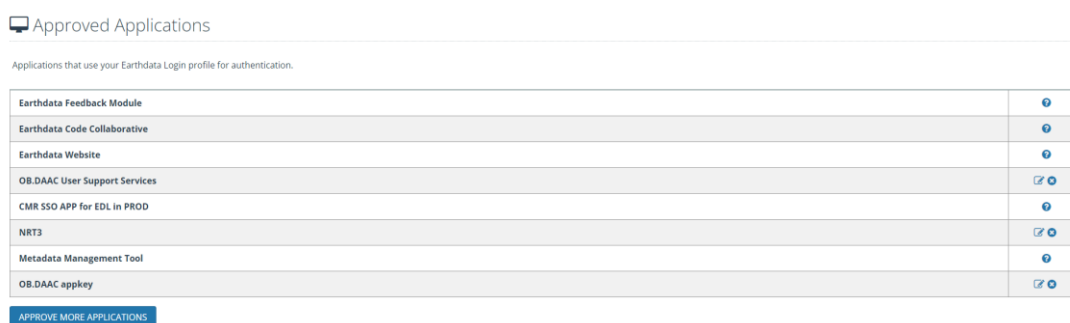
- If something is not present in your credentials, then click on "Approve More Application" and approve the same.
- Now use the username and password directly in "Data Provider Credential" dialog box
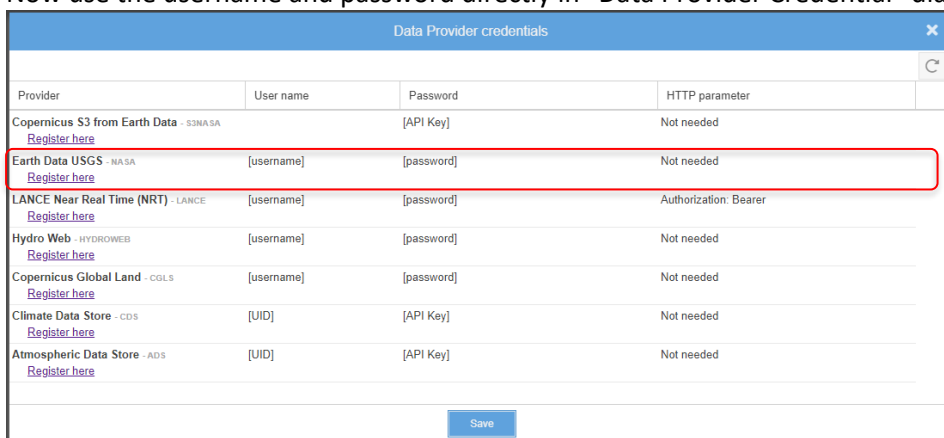
1.1.1 LANCE Near Real Time(NRT) Credentials using Username, password & Token
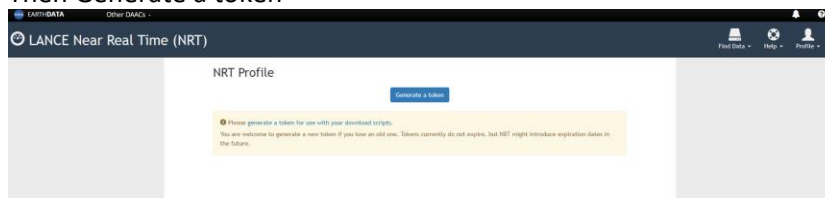
- Go to https://nrt3.modaps.eosdis.nasa.gov/ and Login. It uses the same credentials as Earth Data which we created in section 2.2
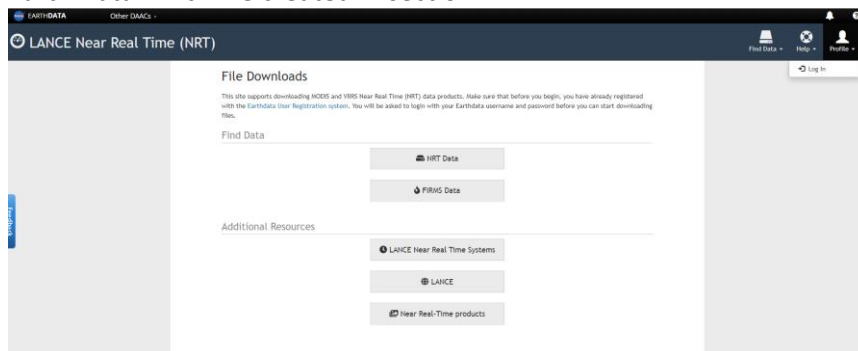
- Once login, click on the "Profile" and select "Download Tokens"
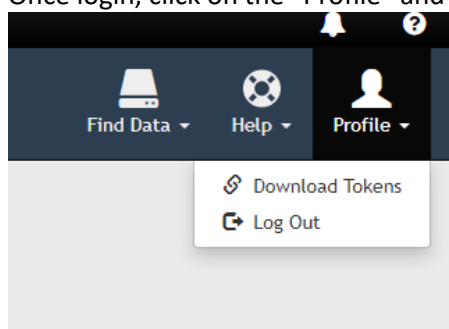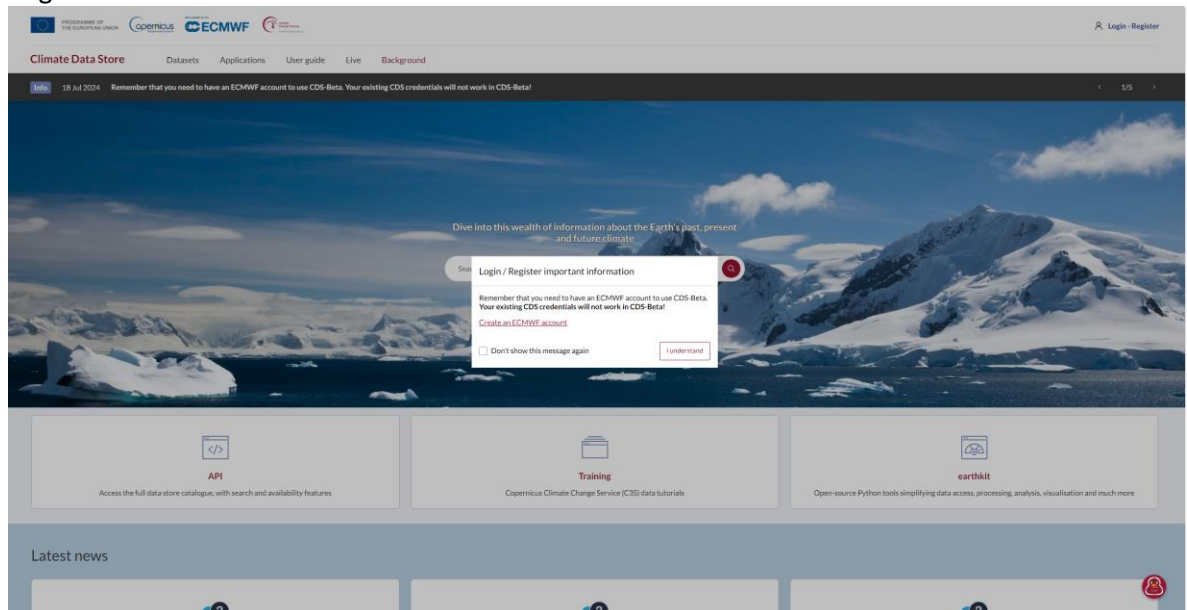

- Then Generate a token

- 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

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.

- 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"

- Click on your "Username" in the right top corner

- In the User Profile page scroll down to check for User ID and Personal Access Token

- UID is the username and Personal Access Token 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.
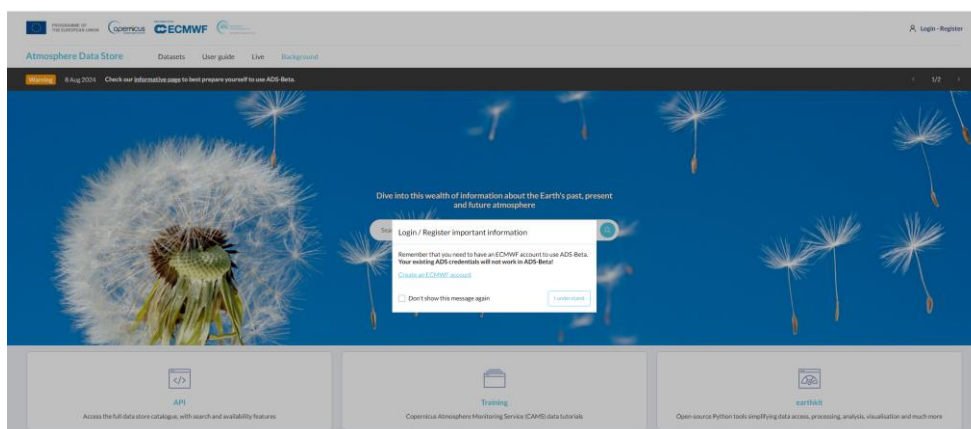
- After accepting the license, copy the credentials to "Data Provider Credential" dialog box under portfolio of ClimSA station.
- Copy the UID and Personal Access Token here, not your username or password

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
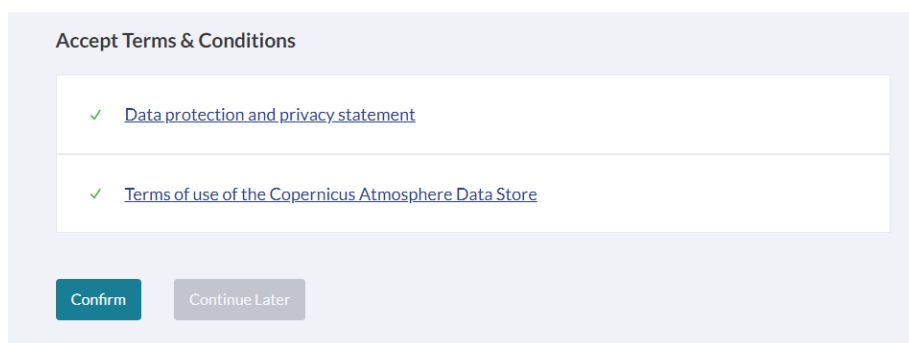
- Go to one dataset website CAMS global reanalysis (EAC4) (copernicus.eu) and verify if you accepted the license in bottom of the page.
- Click on your "Username" in the right top corner of the page
- In the User Profile page scroll down to check for User ID and Personal Access Token
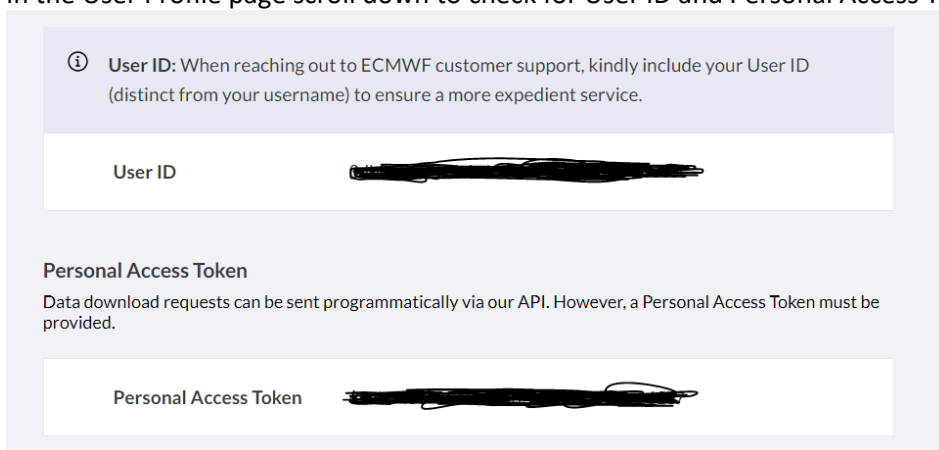
- After accepting the license, copy the credentials to "Data Provider Credential" dialog box under portfolio of ClimSA station.
- Copy the UID and Personal Access Token here, not your username or password

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

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

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

- 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.

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 will receive an email to set the password
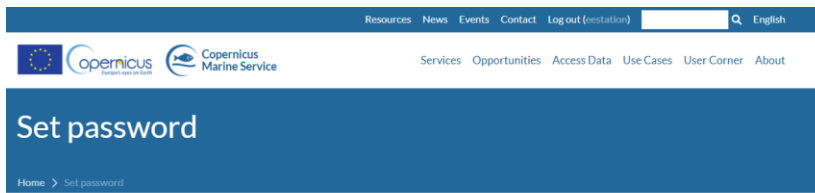
- Your username is display on top of the page
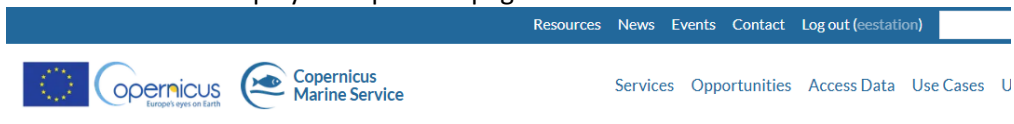
- Copy the **username** and **password** to "Data Provider Credential" dialog box in Copernicus Marine Data Store row under portfolio of ClimSA station.

2. DATA PROVIDER

This section describes the list of data provider

2.1 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/v2012.0	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_S3AB_CHLA_GRADIENT_NRT	**Copernicus Marine Data Store** https://data.marine.copernicus.eu/	Need Credentials
modis-firms/v6.1	MODAPS:EOSDIS:FIRMS:C61:NASA:HTTP	**LANCE Near Real Time(NRT)** https://nrt3.modaps.eosdis.nasa.gov/	Need Credentials
CDS API		**Climate Data Store** https://cds.climate.copernicus.eu/	Need credentials
ADS API		**Atmospheric Data Store** https://ads.atmosphere.copernicus.eu/	Need credentials
vgt-dmp/olci-v1.0	CDSE_ODATA_CLMS_OLCI-V1.0_DMP	**Copernicus Data Space Ecosystem** https://dataspace.copernicus.eu/	Need credentials
vgt-lai/olci-v1.0	CDSE_ODATA_CLMS_OLCI-V1.0_LAI		
vgt-ndvi/olci-v2.0	CDSE_ODATA_CLMS_OLCI-V2.0_NDVI		
vgt-fapar/olci-v1.0	CDSE_ODATA_CLMS_OLCI-V1.0_FAPAR		
vgt-fcover/olci-v1.0	CDSE_ODATA_CLMS_OLCI-V1.0_FCOVER		
ascat-swi/V3.1	CDSE_ODATA_CLMS_METOP_ASCAT-V4_SWI		

2.2 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/datamanage ment/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/gri dded_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/f ews/web/africa/dekadal/rfe/dekadrainfall/downloads/de kadal/	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
wsi-hp/V1.0	JRC:MARS:WSI:C ROP	https://agricultural-production-hotspots.ec.europa.eu/data/indicators_wsi/wsi_hp/	Not needed
wsi-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/datamanage ment/getproductarchive	Not needed

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
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