

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

**Climate Station**

**Data Provider credential creation**

**Version 1.3.1**

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**Date: 2024**

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

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1.2.1	Initial Release	February 2024
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1.3.1	New CDS and ADS credentials	September 2024

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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

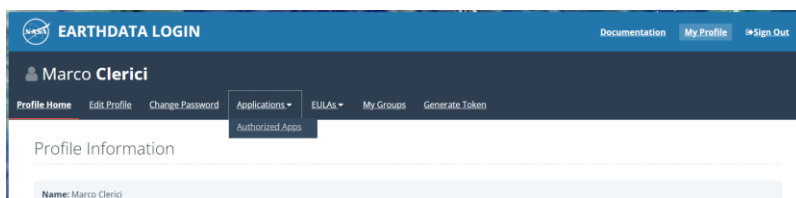
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This document explains the procedure to create the credentials in the data provider website and approve the terms & condition then use those credentials either username/password or API key in the ClimSA station.

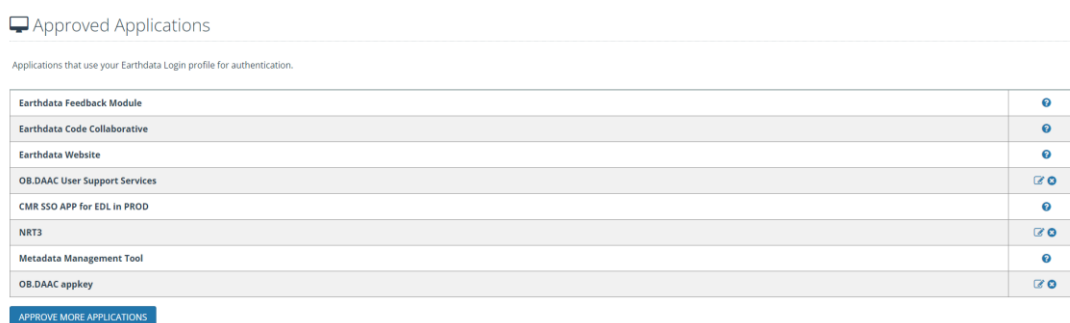
## 1. PROCEDURE TO CREATE CREDENTIALS

### 1.1 NASA EARTH DATA

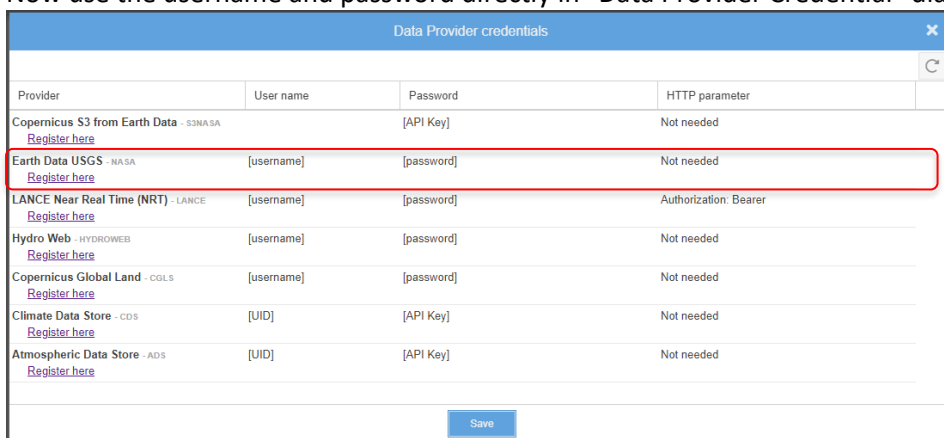
- Go to the NASA Earth Data website <https://urs.earthdata.nasa.gov/users/new> and fill the registration form ([More details](#)). Please also check “Yes, I'm interested in Meris and ESA Sentinel-3 Data.”
- After registering and login, go to your profile <https://urs.earthdata.nasa.gov/profile> and select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



- Check if you credentials are authorized with the following Apps



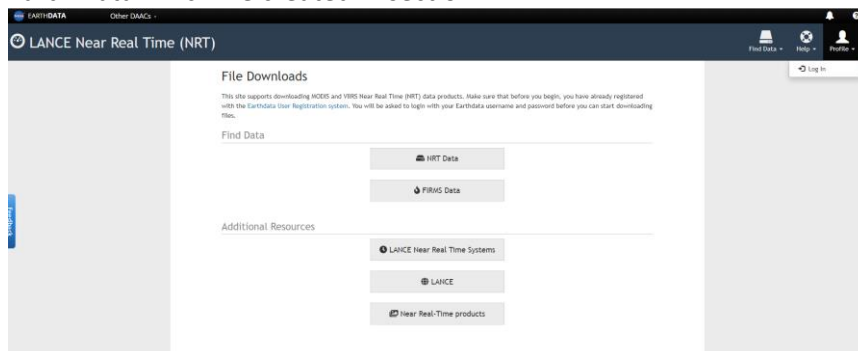
- If something is not present in your credentials, then click on “Approve More Application” and approve the same.
- Now use the username and password directly in “Data Provider Credential” dialog box



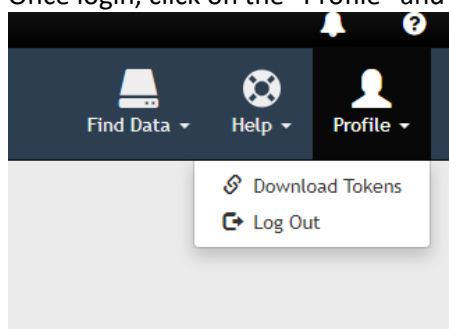
Provider	User name	Password	HTTP parameter
Copernicus S3 from Earth Data - S3NASA		[API Key]	Not needed
Earth Data USGS - NASA	[username]	[password]	Not needed
LANCE Near Real Time (NRT) - LANCE	[username]	[password]	Authorization: Bearer
Hydro Web - HYDROWEB	[username]	[password]	Not needed
Copernicus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

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

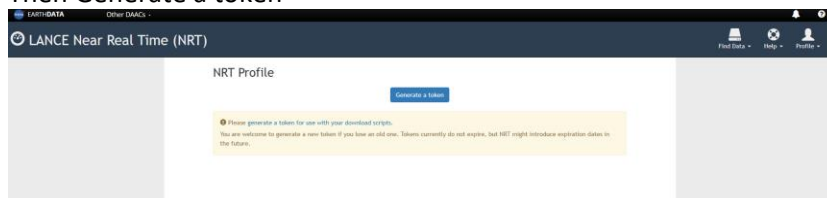
- Go to <https://nrt3.modaps.eosdis.nasa.gov/> and Login. It uses the same credentials as Earth Data which we created in section 2.2



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



- Then Generate a token



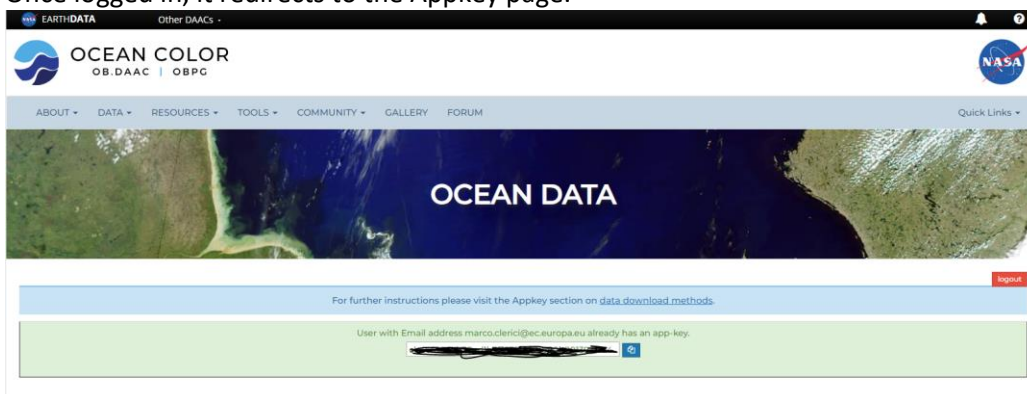
- Once generated then copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Enter username and password created from section 2.2. Also make sure to copy the token to “HTTP parameter” like Authorization: Bearer <token>
- Important Note: The generated token 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 <a href="#">Register here</a>		[API Key]	Not needed
Earth Data USGS - NASA <a href="#">Register here</a>	[username]	[password]	Not needed
LANCE Near Real Time (NRT) - LANCE <a href="#">Register here</a>	[username]	[password]	Authorization: Bearer
Hydro Web - HYDROWEB <a href="#">Register here</a>	[username]	[password]	Not needed
Copernicus Global Land - CGLS <a href="#">Register here</a>	[username]	[password]	Not needed
Climate Data Store - CDS <a href="#">Register here</a>	[UID]	[API Key]	Not needed
Atmospheric Data Store - ADS <a href="#">Register here</a>	[UID]	[API Key]	Not needed

[Save](#)

### 1.1.2 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.

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

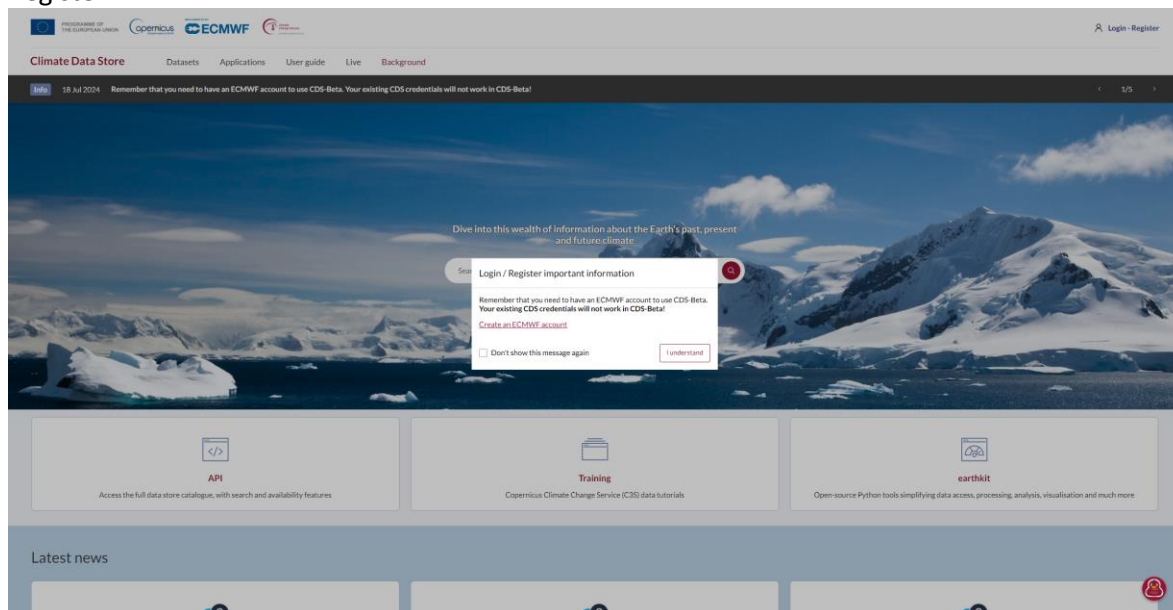
Save

- For more details [https://oceancolor.gsfc.nasa.gov/data/download\\_methods/](https://oceancolor.gsfc.nasa.gov/data/download_methods/)



## 1.2 COPERNICUS CLIMATE CHANGE SERVICE - CLIMATE DATA STORE

- Open the new CDS-Beta website <https://cds-beta.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”**

**Details**

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

Country	Country
Affiliation	Affiliation
Organisation - Optional	Your organisation name
Thematic activities	Thematic activities
Activity sectors	Activity sectors

**Accept Terms & Conditions**

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

☐ [Data protection and privacy statement](#)


☐ [Terms of use of the CEMS Early Warning Data Store](#)

☐ [Terms of use of the Copernicus Climate Data Store](#)

Please provide all mandatory information.


- 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

① **User ID:** When reaching out to ECMWF customer support, kindly include your User ID (distinct from your username) to ensure a more expedient service.

User ID 

**Personal Access Token**

Data download requests can be sent programmatically via our API. However, a Personal Access Token must be provided.

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 \(copernicus.eu\)](https://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](#)

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[Licence to use Copernicus Products](#)  
You must accept the terms before submitting this request.

[Accept terms](#)

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**API request**

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

`</>` Show API request code

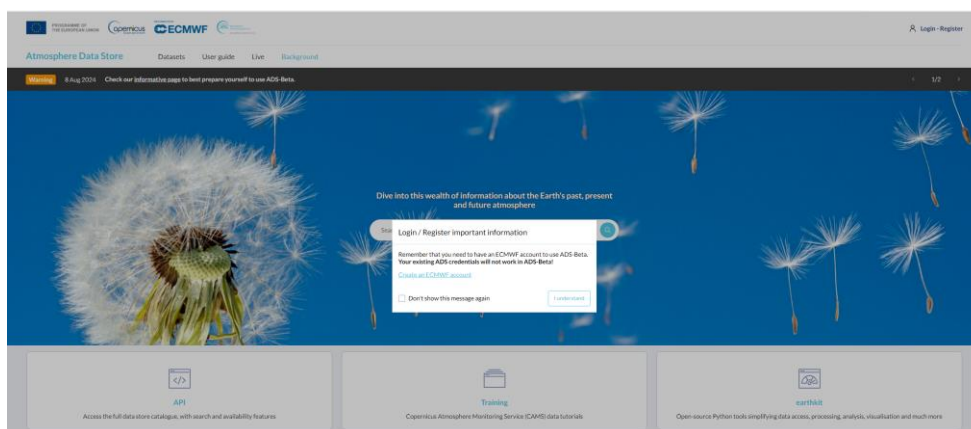
- After accepting the license, copy the credentials to “Data Provider Credential” dialog box under portfolio of ClimSA station.
- Copy the UID and Personal Access Token here, not your username or password

Data Provider credentials			
Provider	User name	Password	HTTP parameter
Copernicus S3 from Earth Data - S3NASA <a href="#">Register here</a>		[API Key]	Not needed
Earth Data USGS - NASA <a href="#">Register here</a>	[username]	[password]	Not needed
LANCE Near Real Time (NRT) - LANCE <a href="#">Register here</a>	[username]	[password]	Authorization: Bearer
Hydro Web - HYDROWEB <a href="#">Register here</a>	[username]	[password]	Not needed
Copernicus Global Land - CGLS <a href="#">Register here</a>	[username]	[password]	Not needed
Climate Data Store - CDS <a href="#">Register here</a>	[UID]	[API Key]	Not needed
Atmospheric Data Store - ADS <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-beta.atmosphere.copernicus.eu/>
- Click on the “Login/Register” & Login to ECMWF account.



- Accept the general Terms & Conditions as in CDS


Accept Terms & Conditions

✓ [Data protection and privacy statement](#)

✓ [Terms of use of the Copernicus Atmosphere Data Store](#)


- Go to one dataset website [CAMS global reanalysis \(EAC4\) \(copernicus.eu\)](https://atmosphere.copernicus.eu/cams-global-reanalysis-eac4) 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

❗ User ID: When reaching out to ECMWF customer support, kindly include your User ID (distinct from your username) to ensure a more expedient service.

User ID 

Personal Access Token

Data download requests can be sent programmatically via our API. However, a Personal Access Token must be provided.

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

Data Provider credentials

Provider

User name

Password

HTTP parameter

Copernicus S3 from Earth Data - S3NASA

Register here

Earth Data USGS - NASA

Register here

LANCE Near Real Time (NRT) - LANCE

Register here

Hydro Web - HYDROWEB

Register here

Copernicus Global Land - CGLS

Register here

Climate Data Store - CDS

Register here

Atmospheric Data Store - ADS

Register here

[API Key]

[username]

[password]

[password]

[username]

[UID]

[UID]

Not needed

Not needed

Authorization: Bearer

Not needed

Not needed

Not needed

Not needed

Save

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## 2. DATA PROVIDER

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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	<b>Earthdata USGS</b> <a href="#">Earthdata Login User Registration (nasa.gov)</a> <a href="https://oceandata.sci.gsfc.nasa.gov/">https://oceandata.sci.gsfc.nasa.gov/</a>	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	GSFC:CGI:OLCI:L 3:S3B:CHLA:1D	<b>Copernicus S3 from Earth Data</b> <a href="https://oceandata.sci.gsfc.nasa.gov/">https://oceandata.sci.gsfc.nasa.gov/</a>	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	<b>LANCE Near Real Time(NRT)</b> <a href="https://nrt3.modaps.eosdis.nasa.gov/">https://nrt3.modaps.eosdis.nasa.gov/</a>	Need Credentials
CDS API		<b>Climate Data Store</b> <a href="https://cds-beta.climate.copernicus.eu/">https://cds-beta.climate.copernicus.eu/</a>	Need credentials
ADS API		<b>Atmospheric Data Store</b> <a href="https://ads-beta.atmosphere.copernicus.eu/">https://ads-beta.atmosphere.copernicus.eu/</a>	Need credentials

## 2.2 DATA PROVIDERS WITHOUT CREDENTIALS

Product/ Version	Data Source ID	URL	Username:Password
arc2-rain/2.0	CPC:NOAA:RAIN: ARC2	<a href="https://ftp.cpc.ncep.noaa.gov/fews/fewsddata/africa/arc2/geotiff/">https://ftp.cpc.ncep.noaa.gov/fews/fewsddata/africa/arc2/geotiff/</a>	Not needed
vgt-dmp/olci-v1.0	PDF:GLS:OLCI-V1.0:DMP	<p><b>Copernicus Global Land</b></p> <p><a href="https://land.copernicus.vgt.vito.be/PDF/datapool/">https://land.copernicus.vgt.vito.be/PDF/datapool/</a></p>	Not 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		
ascatswi/V3.1	PDF:GLS:METOP:ASCAT-V3.1:SWI		
gdo-rdri gdo-sm 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-rfe/2.0	UCSB:CHIRPS:DEKAD:2.0: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
chirps-rfe/2.0	UCSB:CHIRPS:PREL:DEKAD:HTTP		
cpc-sm/1.0	CPC:NCEP:NOAA:SM	<a href="ftp://ftp.cpc.ncep.noaa.gov/wd51yf/global_monthly/gri_ded_binary/current_month/">ftp://ftp.cpc.ncep.noaa.gov/wd51yf/global_monthly/gri_ded_binary/current_month/</a>	Not needed
cdas-month-prcp	IRI:NOAA:PRCP:MONTH	<a href="http://iridl.ldeo.columbia.edu/">http://iridl.ldeo.columbia.edu/</a>	Not needed
fewsnet-rfe/2.0	USGS:EARLWRN:FEWSNET	<a href="https://edcintl.cr.usgs.gov/downloads/sciweb1/shared/fews/web/africa/dekad/rfe/dekadrainfall/downloads/dekad/">https://edcintl.cr.usgs.gov/downloads/sciweb1/shared/fews/web/africa/dekad/rfe/dekadrainfall/downloads/dekad/</a>	Not needed
rain-spi/V1.0	JRC:MARS:SPI:3MON	<a href="https://agricultural-production-hotspots.ec.europa.eu/data/">https://agricultural-production-hotspots.ec.europa.eu/data/</a>	Not needed
rain-spi/V1.0	JRC:MARS:SPI:1MON	<a href="https://agricultural-production-hotspots.ec.europa.eu/data/">https://agricultural-production-hotspots.ec.europa.eu/data/</a>	Not needed
tamsat-rfe/3.0	READINGS:TAMSAT:3.0:10D:NC	<a href="https://www.tamsat.org.uk/public_data/">https://www.tamsat.org.uk/public_data/</a>	Not needed
tamsat-rfe/3.1	READINGS:TAMSAT:3.1:10D:NC	<a href="https://www.tamsat.org.uk/public_data/">https://www.tamsat.org.uk/public_data/</a>	Not needed
ws-hp/V1.0	JRC:MARS:WSI:CROP	<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
ws-hp/V1.0	JRC:MARS:WSI:PASTURE	<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 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
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