

# Using *wget* to download multiple files and directories from ECCO drive: <https://ecco.jpl.nasa.gov/drive/files>

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Adapted from the PO.DAAC discussion forum topic “Download Multiple Data Files from PODAAC Drive Using *wget*” <https://go.nasa.gov/2XmGu6b>

*“wget is a free utility for non-interactive download of files from the Web. It supports http, https, and ftp protocols, as well as retrieval through http proxies. It is a Unix-based command-line tool, but is also available for other operating system, such as Windows, Mac OS X, etc.”*

## **Three illustrative examples using *wget***

Here the username and password are the WebDAV/Programmatic API credentials (login/password). Other *wget* flags are described later.

### **Example 1: Download all of the lat-lon ETAN files from ECCOv4 Release 4**

```
>wget --user=ifenty --password=ABCD -r -nc -np -nH --cut-dirs=2  
https://ecco.jpl.nasa.gov/drive/files/Version4/Release4/interp\_monthly/ETAN/
```

After downloading you will have set of directories and files like this:

```
/Version4/Release4/interp_monthly/ETAN/1992/ETAN_1992_01.nc  
/Version4/Release4/interp_monthly/ETAN/1992/ETAN_1992_02.nc [...]  
/Version4/Release4/interp_monthly/ETAN/2017/ETAN_2017_12.nc
```

### **Example 2: Download the entire ECCOv4 Release 4 solution**

```
>wget --user=ifenty --password=ABCD -r -nc -np -nH --cut-dirs=2  
https://ecco.jpl.nasa.gov/drive/files/Version4/Release4/
```

After downloading you will have set of directories and files like this:

```
/Version4/Release4/input_init/  
/Version4/Release4/interp_monthly [...]
```

### **Example 3: Download all of the SALT files from the cube92 solution**

```
>wget --user=ifenty --password=ABCD -r -nc -np -nH --cut-dirs=2  
https://ecco.jpl.nasa.gov/drive/files/ECCO2/cube92\_latlon\_quart\_90S90N/SALT.nc
```

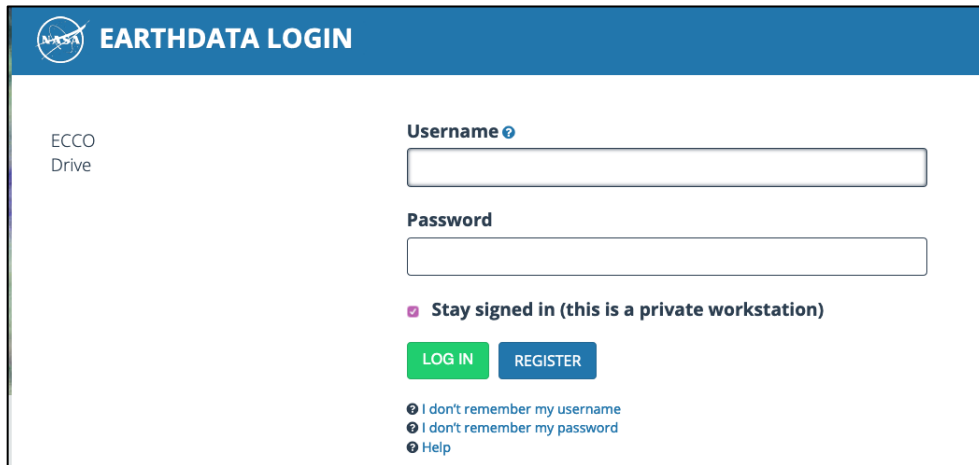
After downloading you will have set of directories and files like this:

```
/ECCO2/cube92_latlon_quart_90S90N/SALT.nc/SALT.1440x720x50.19920102.nc  
/ECCO2/cube92_latlon_quart_90S90N/SALT.nc/SALT.1440x720x50.19920105.nc [...]
```

Remember the username and password that are used for *wget* are your NASA EOSDIS "WebDAV/Programmatic API" credentials (i.e., username and password). These are different than your NASA EOSDIS **EARTHDATA** credentials. Yes, this can be confusing.

## How to find you WebDAV/Programmatic API credentials

Navigate to <https://ecco.jpl.nasa.gov/drive/>. You will be redirected to the NASA EOSDIS "EARTHDATA" login page. Use your EARTHDATA credentials to log on (you will need to register a new account if you don't already have one).



EARTHDATA LOGIN

ECCO Drive

Username

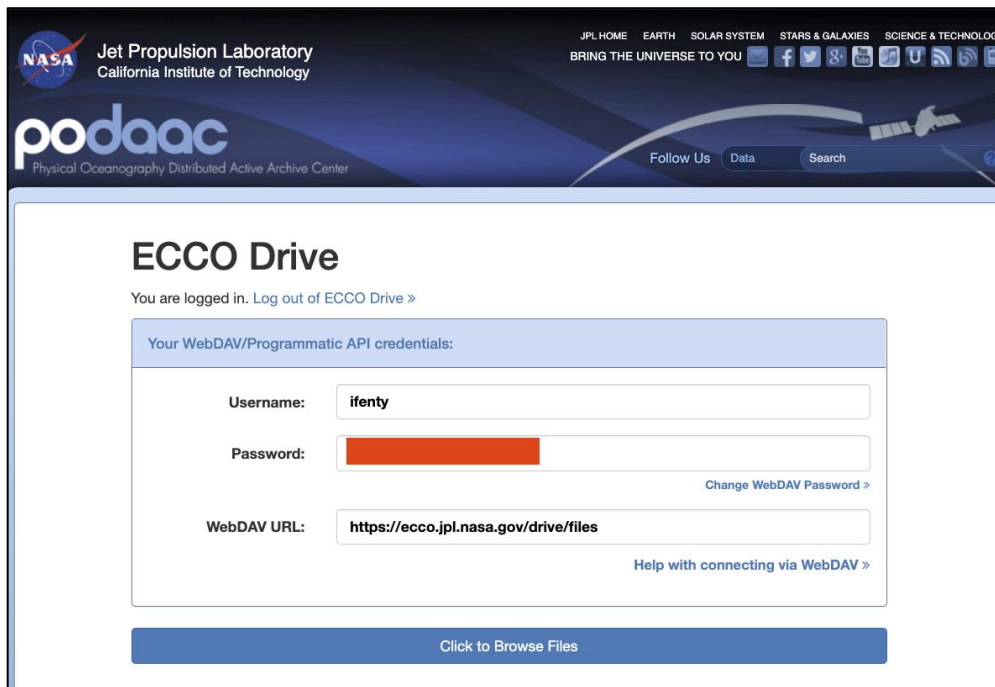
Password

Stay signed in (this is a private workstation)

LOG IN REGISTER

[I don't remember my username](#)  
[I don't remember my password](#)  
[Help](#)

After logging into the NASA EOSDIS EARTHDATA page you will be taken to an ECCO Drive page showing your "WebDAV/Programmatic API credentials". Where did the password come from? It was automatically generated (but you can change it later).



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## ECCO Drive

You are logged in. [Log out of ECCO Drive >](#)

Your WebDAV/Programmatic API credentials:

Username:

Password:

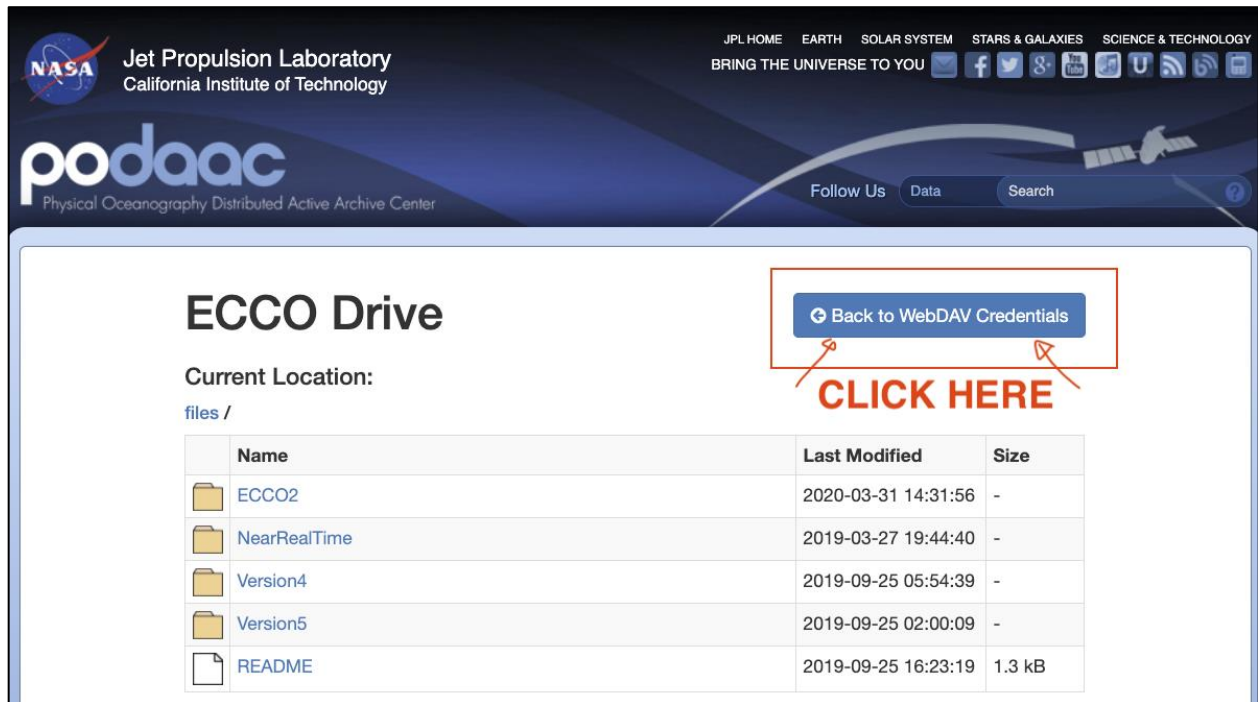
[Change WebDAV Password >](#)

WebDAV URL:

[Help with connecting via WebDAV >](#)

Click to Browse Files

Alternatively, if you are taken to a page showing the ECCO Drive top-level directory (as below) then click on the big blue box called "Back to WebDAV Credentials":



The screenshot shows the ECCO Drive web interface. At the top, there is a navigation bar with links for JPL HOME, EARTH, SOLAR SYSTEM, STARS & GALAXIES, and SCIENCE & TECHNOLOGY. Below this is the Podaac logo and the text "Physical Oceanography Distributed Active Archive Center". The main content area is titled "ECCO Drive" and shows the "Current Location: files /". A blue button labeled "Back to WebDAV Credentials" is highlighted with a red box and arrows, with the text "CLICK HERE" written below it. Below the button is a table listing files and folders in the directory.

Name	Last Modified	Size
ECCO2	2020-03-31 14:31:56	-
NearRealTime	2019-03-27 19:44:40	-
Version4	2019-09-25 05:54:39	-
Version5	2019-09-25 02:00:09	-
README	2019-09-25 16:23:19	1.3 kB

After clicking on the blue "Back to WebDAV Credentials" button you will be taken to the "WebDAV/Programmatic API credentials" page where you can note your username and password.

## **wget flags**

In the examples above we used several optional *wget* flags in addition to the required WebDAV/Programmatic API credentials. Their meaning is provided below:

- r "recursive download", follow subdirectories when downloading
- np "no parent", only download from subdirectories, not parent directories
- nc "no clobber", overwrite files if they are present
- nH "no host directories", do not create subdirectories starting with the ECCO drive URL
- cut-dirs=2 "skip the first 2 subdirectories", without this option *wget* would make the top-level subdirectories /drive/files/Version4/etc. With the --cut-dirs=2, *wget* skips the first two subdirectories and makes the top-level subdirectory /Version4/ or /ECCO2/ (or whatever ECCO solution you are downloading).

Many more *wget* options are available which you can learn about here:

<https://www.gnu.org/software/wget/manual/wget.html>