

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

Ian Fenty

Original 2020-04-09, updated 2020-04-29

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
```

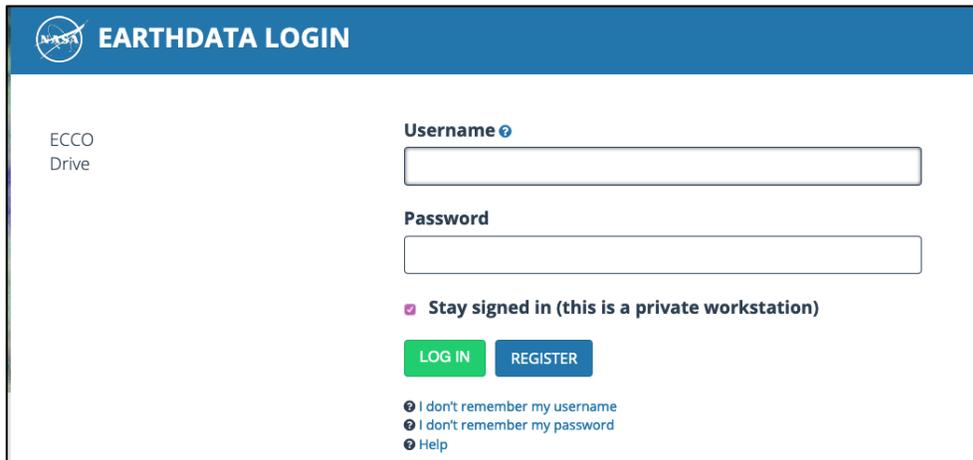
After downloading you will have set of directories and files like this:

```
/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

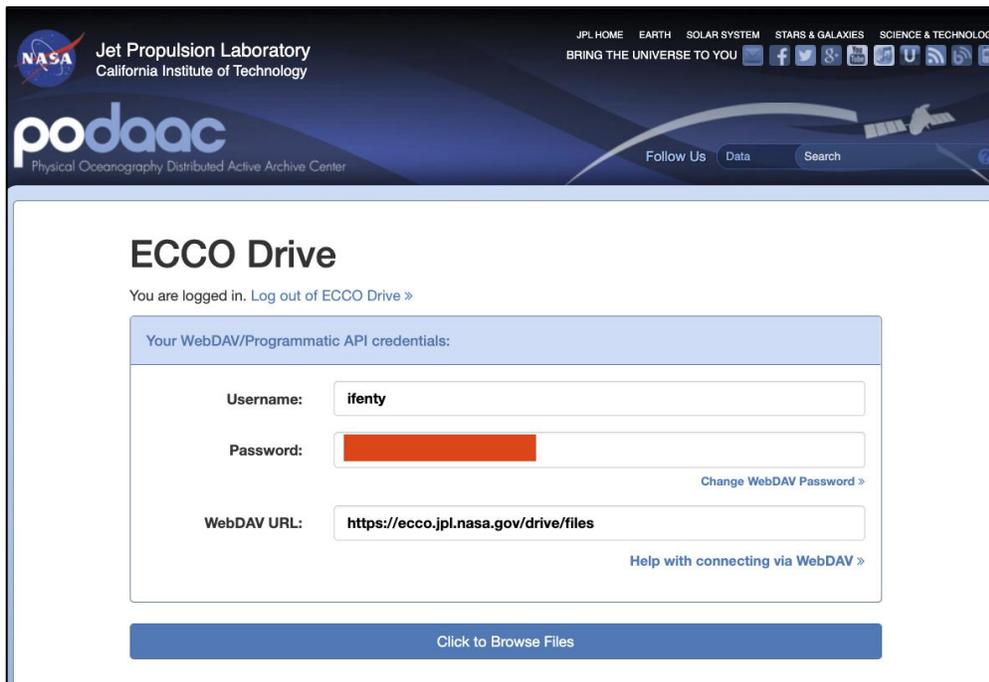
Password

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).



Jet Propulsion Laboratory
California Institute of Technology

podaac
Physical Oceanography Distributed Active Archive Center

JPL HOME EARTH SOLAR SYSTEM STARS & GALAXIES SCIENCE & TECHNOLOGY
BRING THE UNIVERSE TO YOU

Follow Us Data Search

ECCO Drive

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

Your WebDAV/Programmatic API credentials:

Username:

Password:

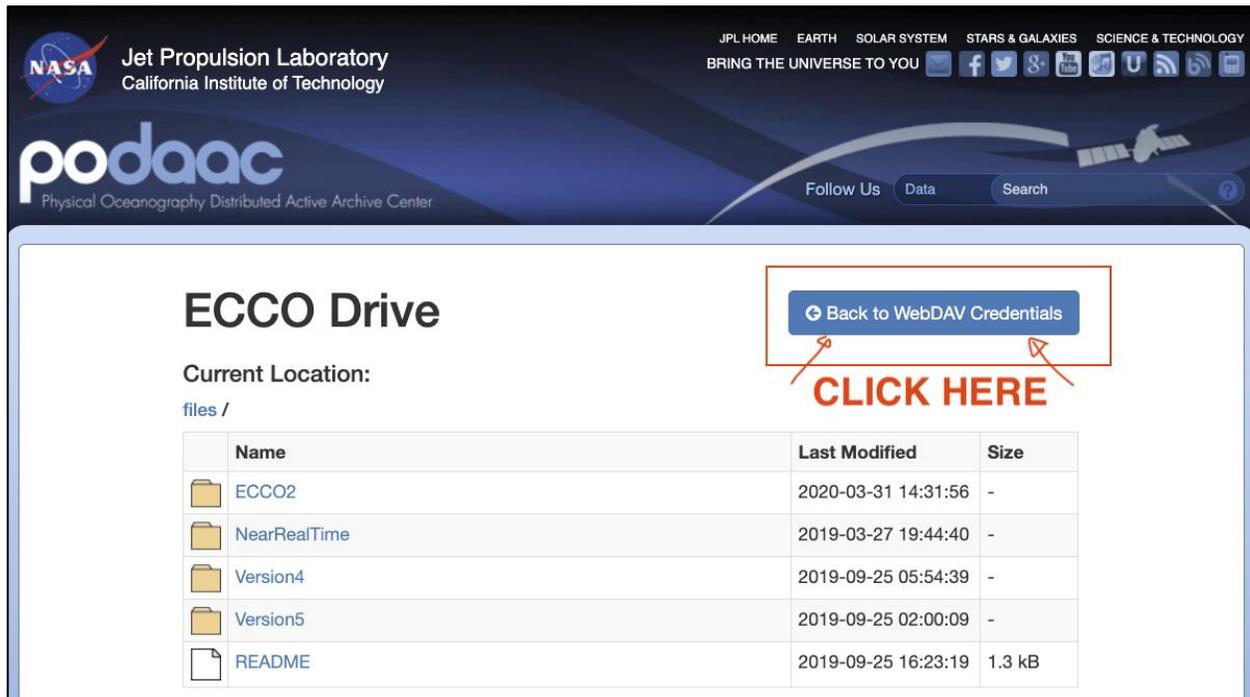
[Change WebDAV Password >](#)

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 directories:

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>