Good Bye FTP, How to Access Data at PO.DAAC



<u>Jessica.K.Hausman@jpl.nasa.gov</u>¹, Edward Armstrong¹, David Moroni¹, Vardis Tsontos¹, Yibo Jiang¹, Wen-Hao Li², Michelle Gierach¹, John Klose¹, Eric Tauer¹

¹Jet Propulsion Laboratory/California Institute of Technology ²Raytheon

Abstract

NASA security has announced that all FTP will be shut down at all NASA centers. The problem with this is that the majority of PO.DAAC users obtain data via FTP. PO.DAAC has developed new ways of accessing data to replace FTP. This poster will show how data can be accessed without FTP via protocols, tools and services. HTTPS will provide the closest look and feel to FTP, but will require user registration. You can also choose to mount the PO.DAAC directory structure onto your own machine using EarthData Drive. The other services that PO.DAAC provides will remain, such as web services, OPeNDAP and THREDDS. Recipes on how to leverage these services can be found on the PO.DAAC forum.

When does FTP get shut down?

FTP will be shut down in spring of 2019. The tools and services discussed below are currently available to users now so they can begin migration. All users will need to login with EarthData Login to download data

Accessing Data via Protocols, Tools and Services

HTTPS/Drive

https://podaac-tools.jpl.nasa.gov/drive

Drive will provide the closest function to FTP with hierarchical file browse and can be used with rsync, curl or wget, along with other tools. It uses WebDAV so you can mount Drive to your machine.

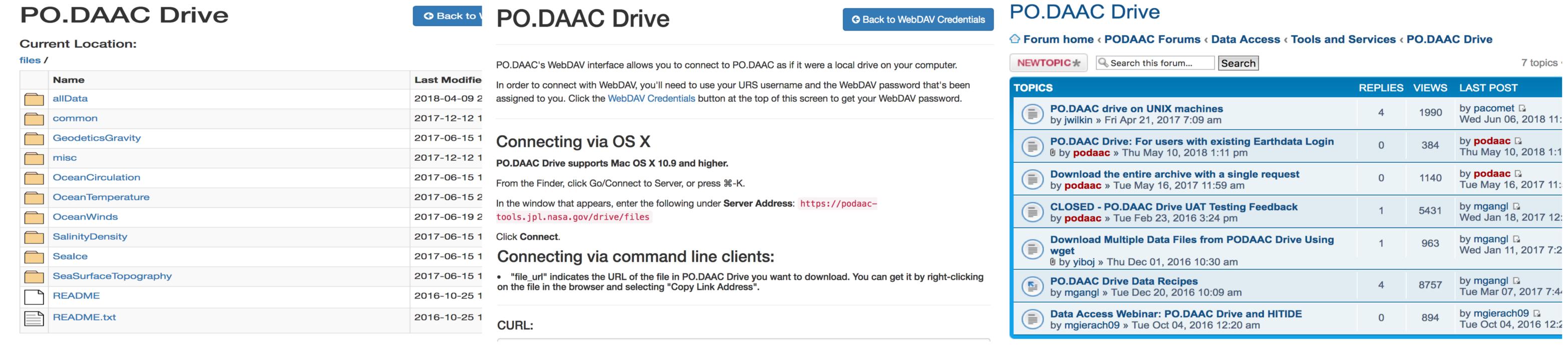


Figure 1. Directory listing of Drive

https://podaac-tools.jpl.nasa.gov/drive/files

Figure 2. Examples of help from

https://podaac-tools.jpl.nasa.gov/drive/help

Figure 3. Forum topic on Drive

https://podaac.jpl.nasa.gov/forum/viewforum.php?f=75

EarthData Login/URS

https://urs.earthdata.nasa.gov/home

To download data all users will need to be registered through EarthData Login. This is the same login system used by all DAACs and EOSDIS so you only need one registration for all of them.

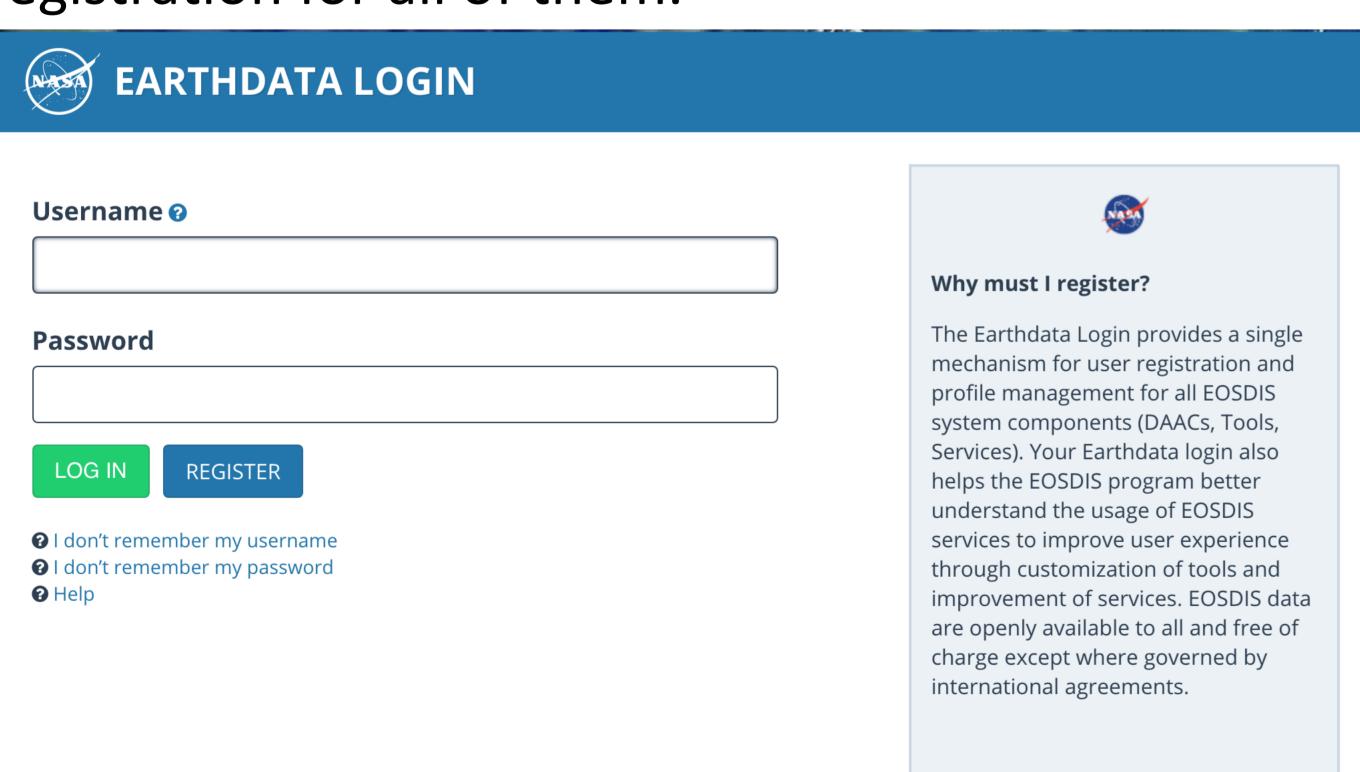


Figure 4. EarthData Login and registration page https://urs.earthdata.nasa.gov/home

Web Services

https://podaac.jpl.nasa.gov/ws

PO.DAAC web services are APIs that allow users to search, access and subset data from PO.DAAC via web protocols.

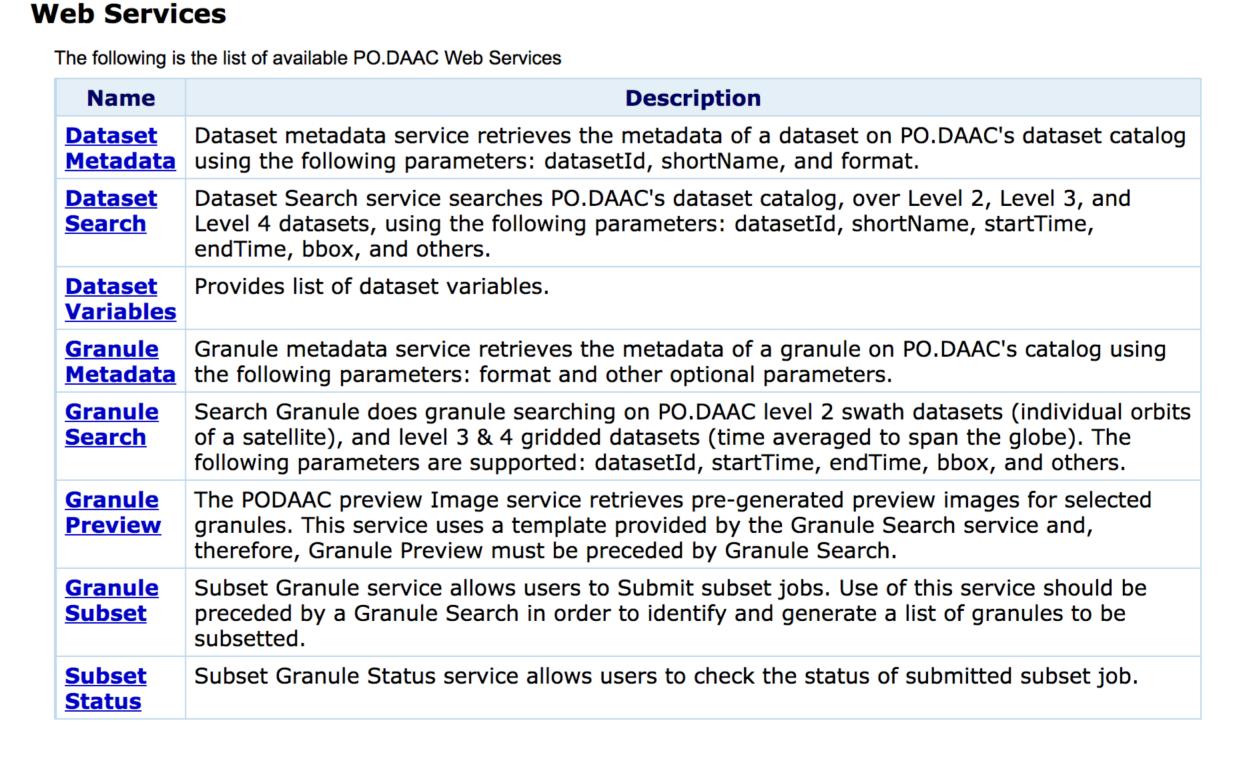


Table 1. PO.DAAC web services https://podaac.jpl.nasa.gov/ws

OPeNDAP and **THREDDS**

https://opendap.jpl.nasa.gov/opendap/ and https://thredds.jpl.nasa.gov/thredds/catalog.html

OPeNDAP and THREDDS are 3rd party protocols that allow for subsetting and data access via web protocols.