



Goodbye FTP, New Ways to Access NASA's Physical Oceanography Data at PO.DAAC

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Outline

- FTP Deprecation
- Other ways of accessing data
- Drive
 - EarthData login
 - HTTPS listing vs. FTP
 - Help page
 - Forum
 - Recipes
 - Wget example
 - Mount remote server
 - Download vs. mount
- PODAACPy and Web Services by Lewis

FTP Deprecation

- NASA is deprecating anonymous FTP
- Poses security issues
- Most PO.DAAC users download data via FTP
- PO.DAAC FTP shut down June 2019

Other ways to access data

- OPeNDAP
 - <https://opendap.jpl.nasa.gov/opendap/>
 - <https://youtu.be/AJQ3m3E8SCY>
 - <https://youtu.be/-dYRmZQVr4c>
- THREDDS
 - <https://thredds.jpl.nasa.gov>
- Web Services

DRIVE

- Access via HTTPS or remote server mount via WebDAV to PO.DAAC data
- WebDAV is an extension of HTTP that allows for remote web access
- Requires EarthData login
 - Same login used across EOSDIS, NASA EarthData and DAACs
 - More customized experience for users
- Similar structure, look and feel as FTP
- Available at other DAACs
- <https://earthdata.nasa.gov/daac-collaboration-on-earthdata-drive>

- PO.DAAC
 - <https://podaac.jpl.nasa.gov/>
- Drive
 - <https://podaac-tools.jpl.nasa.gov/drive/>
- Help page
 - <https://podaac-tools.jpl.nasa.gov/drive/help>
- Forum
 - https://podaac.jpl.nasa.gov/drive_forum
- Recipes
 - https://podaac.jpl.nasa.gov/drive_recipes

Podaacpy; a python utility library for interacting with [NASA JPL's PO.DAAC](#)

1. What is Podaacpy? Where is it developed?
Who develops/owns it?
2. User and developer documentation
3. Podaacpy availability in the Python packaging ecosystem
4. Examples using Jupyter Notebook
5. Conclusion

1. Although Webservices are programming language agnostic, not everyone knows the tooling, and not everyone likes using the command line.
2. Podaacpy is a user-friendly programming toolkit which lowers the barrier to interacting with PO.DAAC Webservices e.g. automating the execution of repetitive tasks such as subset and download.
3. With that, let's take a look at what it is and what it actually does!

- What is Podaacpy?
 - A Python toolkit for interacting with several of PO.DAAC's public facing data Webservices
- Where is it developed?
 - On Github as a community under the NASA Github organization <https://github.com/nasa/podaacpy>
- Who develops/owns it?
 - Licensed under the permissive Apache License v2.0, no-one owns the software. The community are the stewards and guide the project direction.

Let's take a look at where it lives, some documentation and then we can get on to some examples.

<https://github.com/nasa/podaacpy>