Latest Data Services at PO.DAAC

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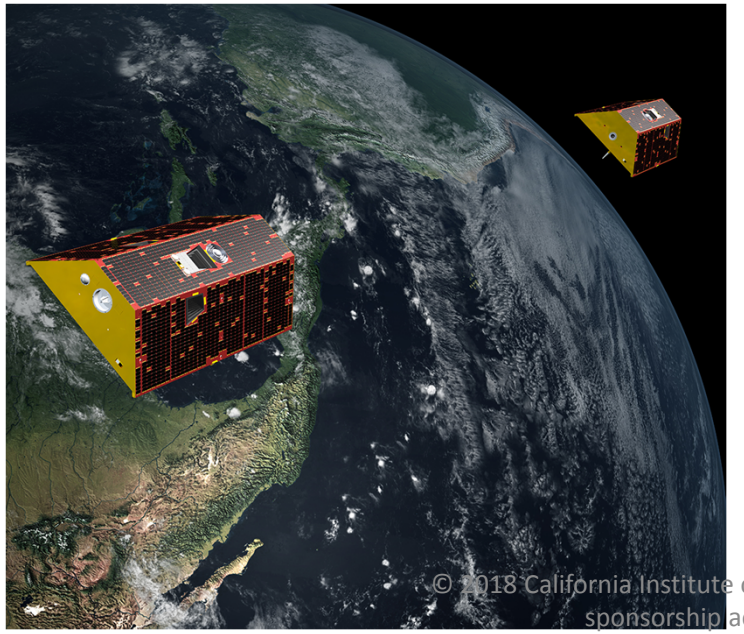
Outline

- Datasets
  - GRACE-FO
  - Altimetric MEaSUREs datasets
  - Pre-SWOT hydrology
- State Of The Ocean (SOTO)
- FTP shut down
  - Drive/HTTPS replacement

GRACE-FO

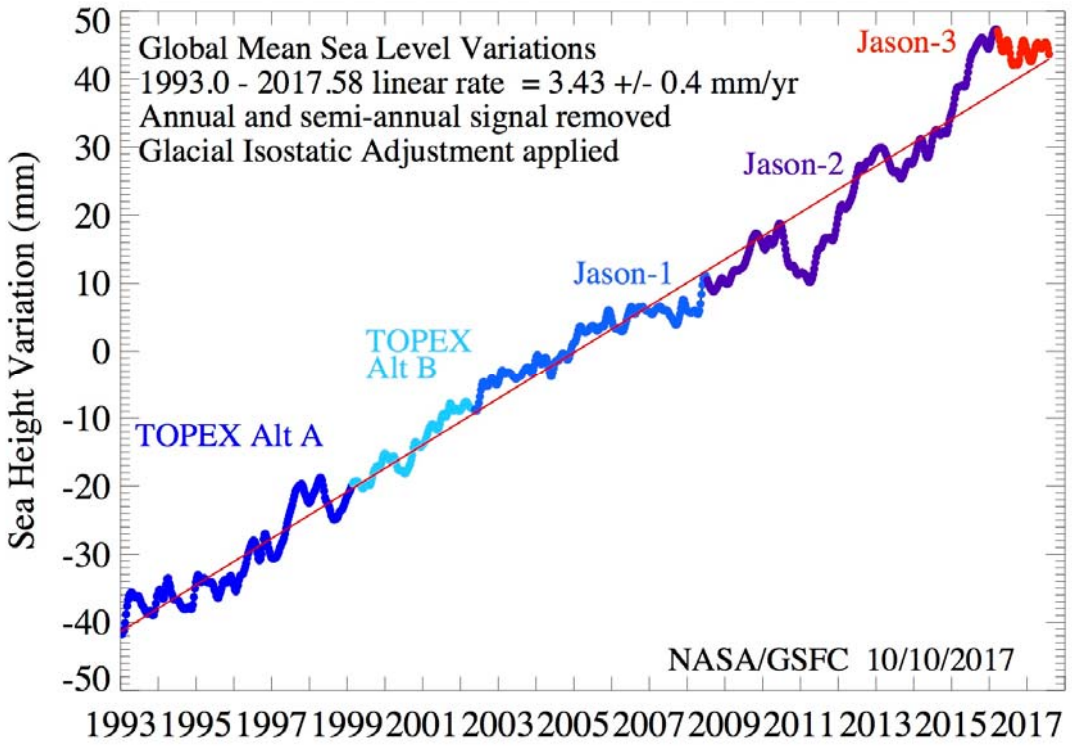
- GRACE-FO launched May 22, 2018
- Follow on for GRACE
- Data will be available late this year/early next year



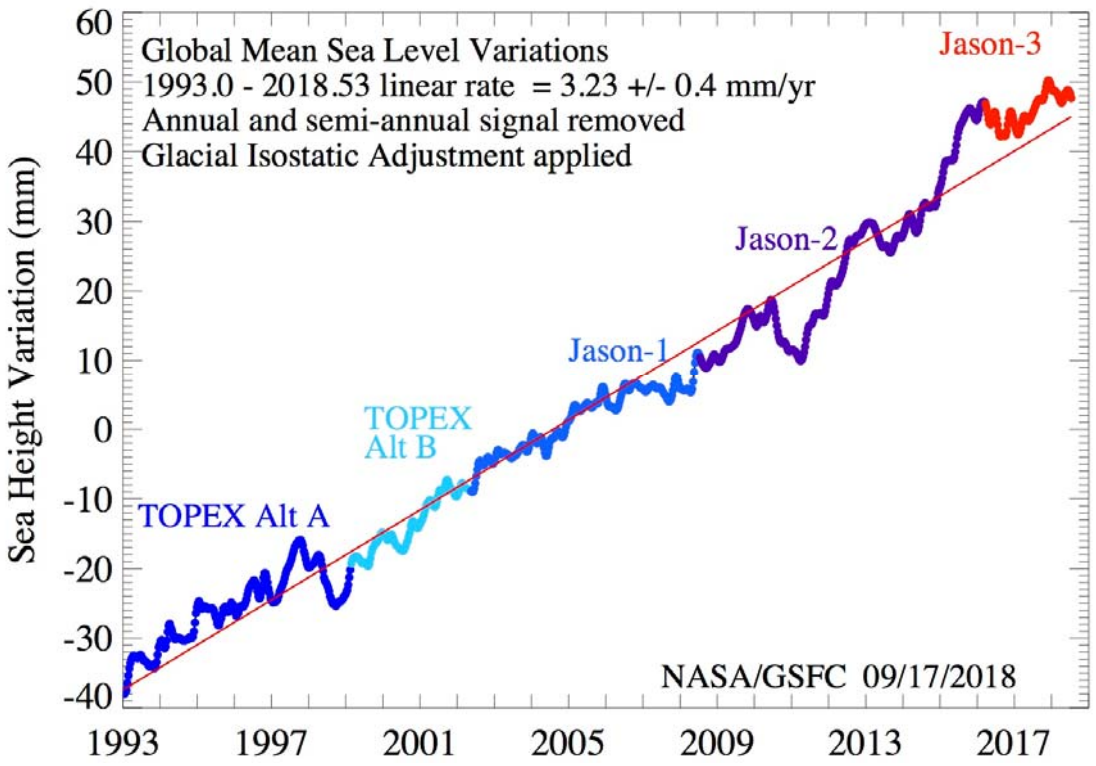
Altimetric MEaSUREs datasets

- L2 Integrated Multi-Mission Altimetry V4.2
  - Does not include TOPEX intercalibration-mode range

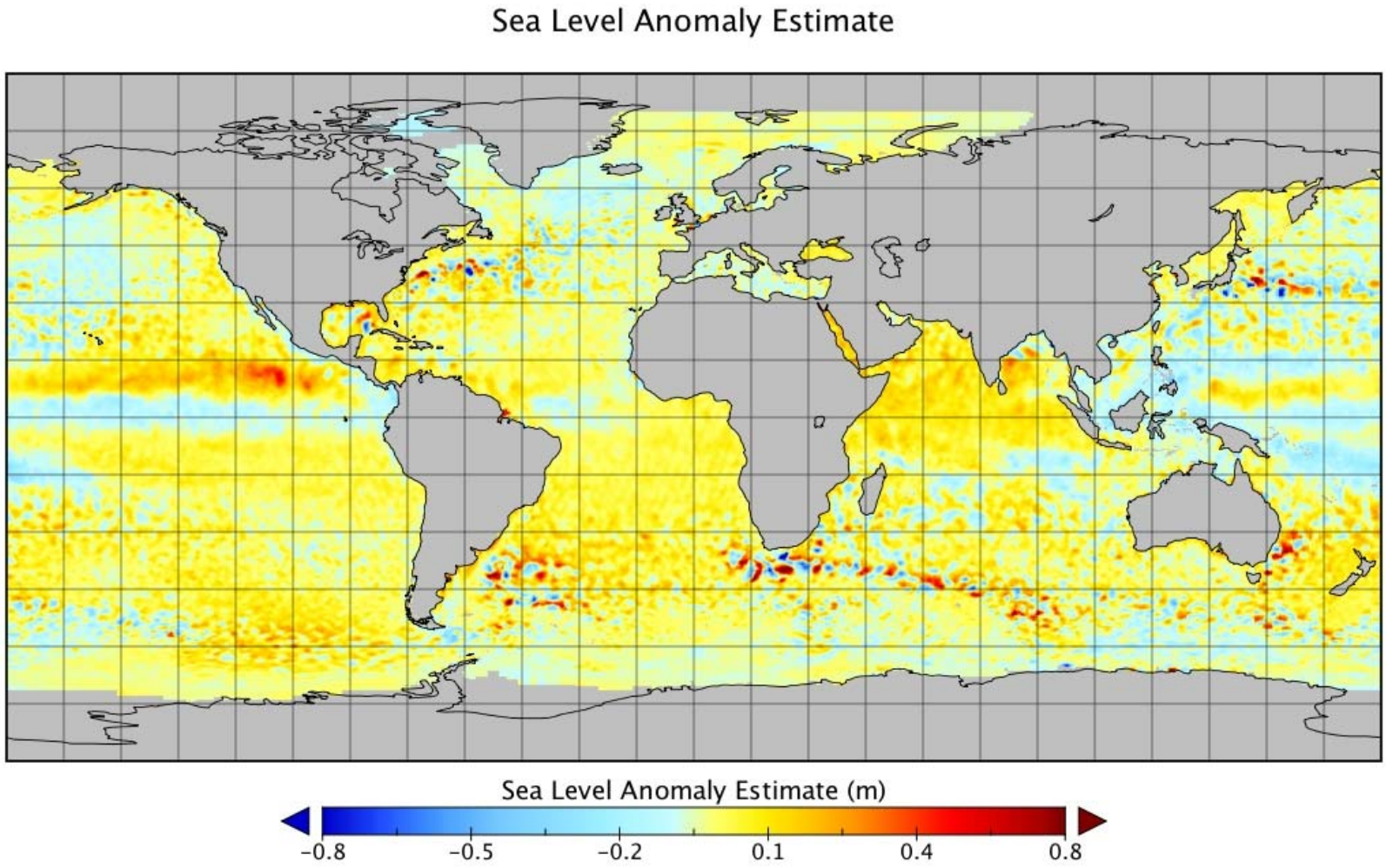
Version 4.0



Version 4.2

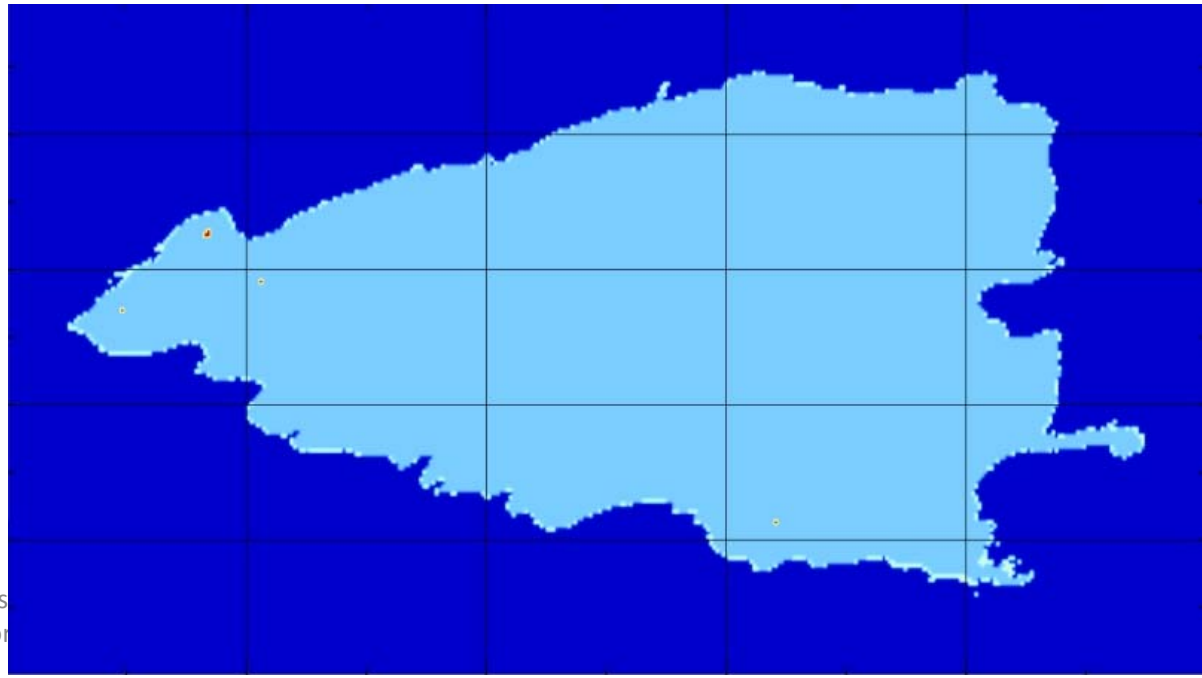


- MEaSUREs Gridded SSHA V1609

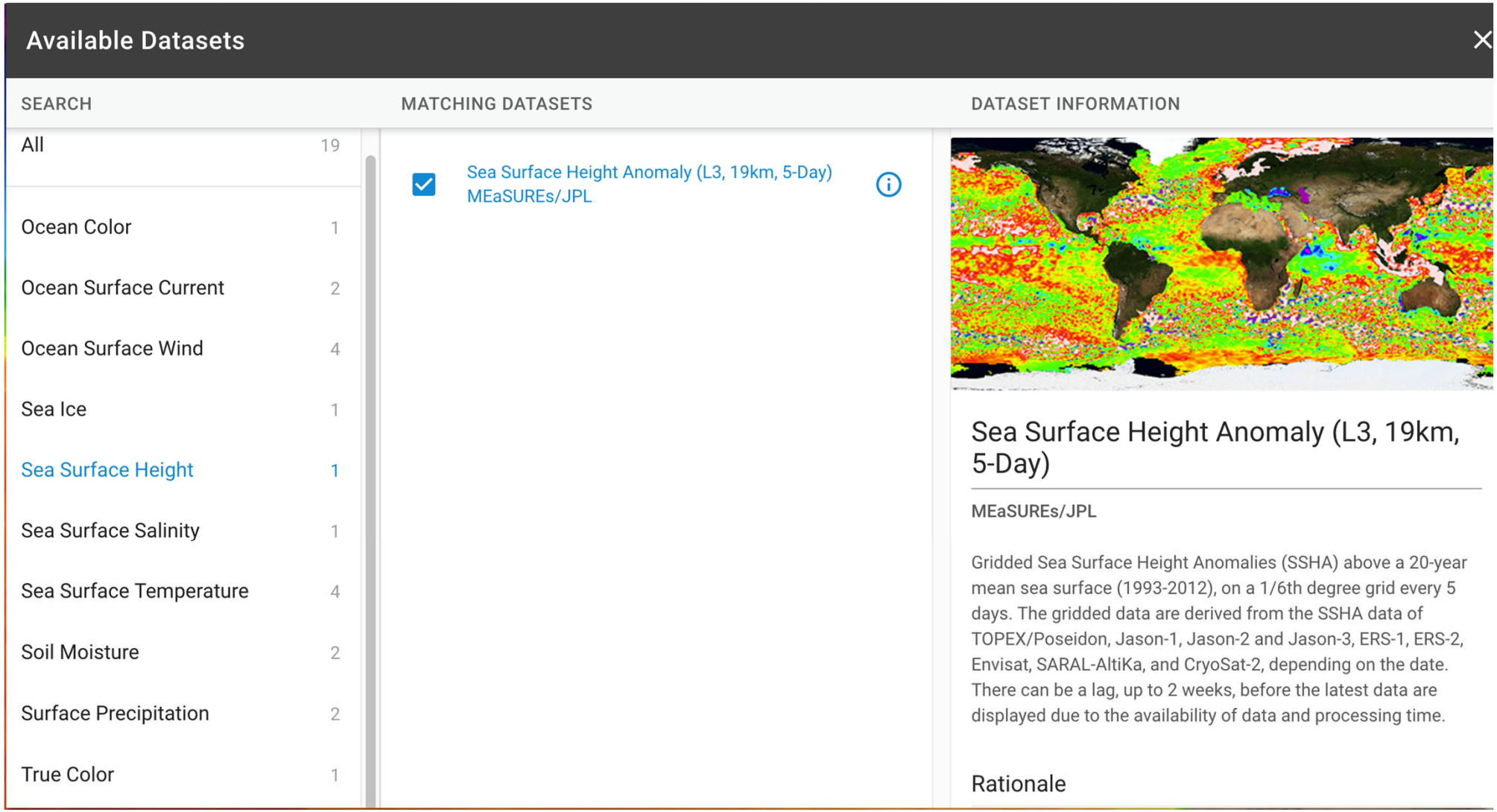


Pre-SWOT Hydrology

- There are currently 3 products
  - GRAATS river heights
  - Lake heights
  - Lake area
- Lake products V2 will be available at the end of the year.



SOTO (State Of The Ocean)

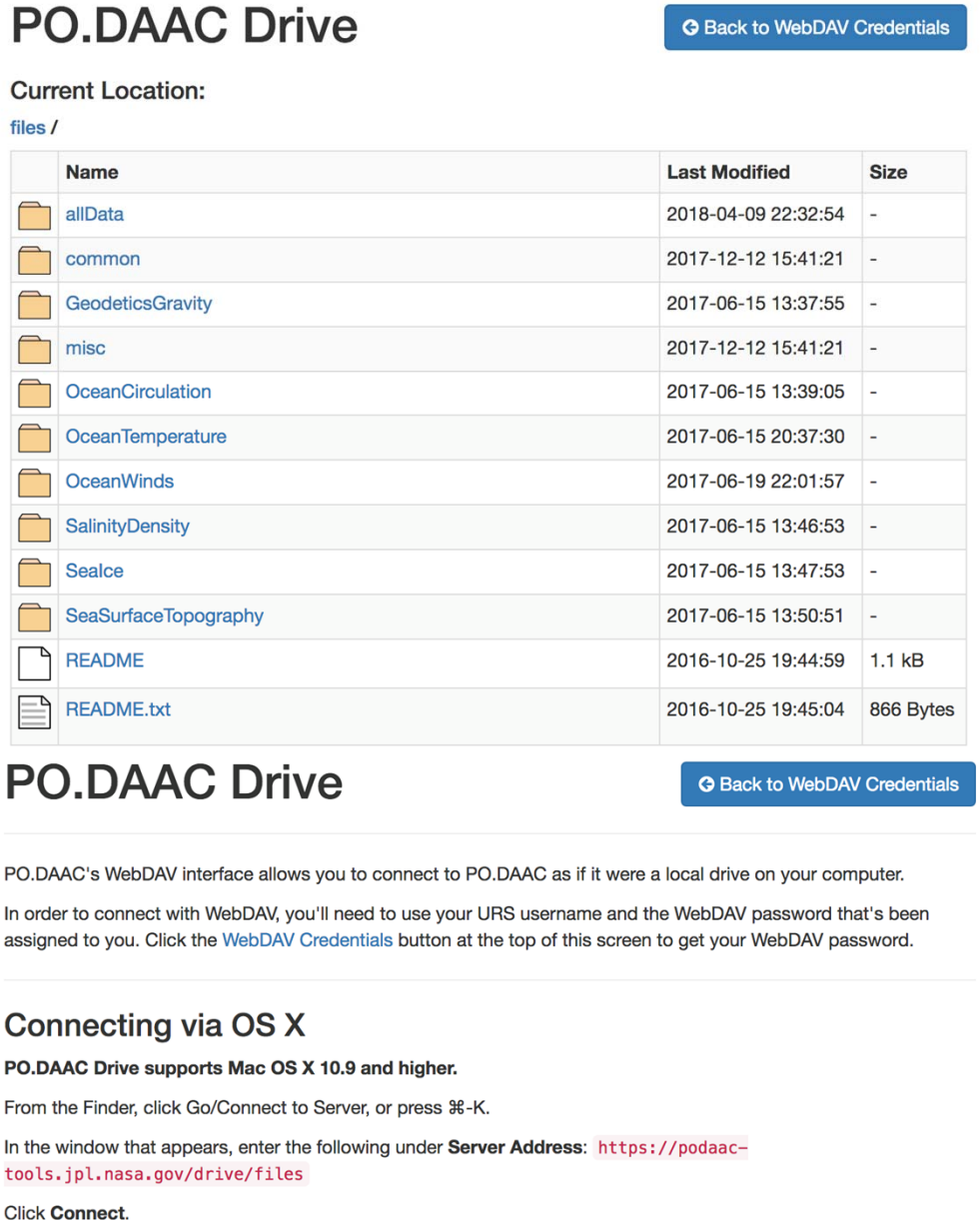


Drive/HTTPS

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

Poster ODS_006

- FTP will be deprecated June 2019
- It will be replaced by HTTPS via Drive
  - Directory listing similar to FTP
  - Uses WebDAV API so can “mount” data like a local drive
  - Can use wget, curl or aria2
- Requires EarthData login
  - Same login used across EOSDIS and all DAACs
  - Will be able to inform users of issues with datasets they use
  - Capture better usage metrics



PO.DAAC Drive

Back to WebDAV Credentials

Current Location:

files /

	Name	Last Modified	Size
	allData	2018-04-09 22:32:54	-
	common	2017-12-12 15:41:21	-
	GeodeticsGravity	2017-06-15 13:37:55	-
	misc	2017-12-12 15:41:21	-
	OceanCirculation	2017-06-15 13:39:05	-
	OceanTemperature	2017-06-15 20:37:30	-
	OceanWinds	2017-06-19 22:01:57	-
	SalinityDensity	2017-06-15 13:46:53	-
	SeaIce	2017-06-15 13:47:53	-
	SeaSurfaceTopography	2017-06-15 13:50:51	-
	README	2016-10-25 19:44:59	1.1 kB
	README.txt	2016-10-25 19:45:04	866 Bytes

PO.DAAC Drive

Back to WebDAV Credentials

PO.DAAC's WebDAV interface allows you to connect to PO.DAAC as if it were a local drive on your computer.

In order to connect with WebDAV, you'll need to use your URS username and the WebDAV password that's been assigned to you. Click the WebDAV Credentials button at the top of this screen to get your WebDAV password.

Connecting via OS X

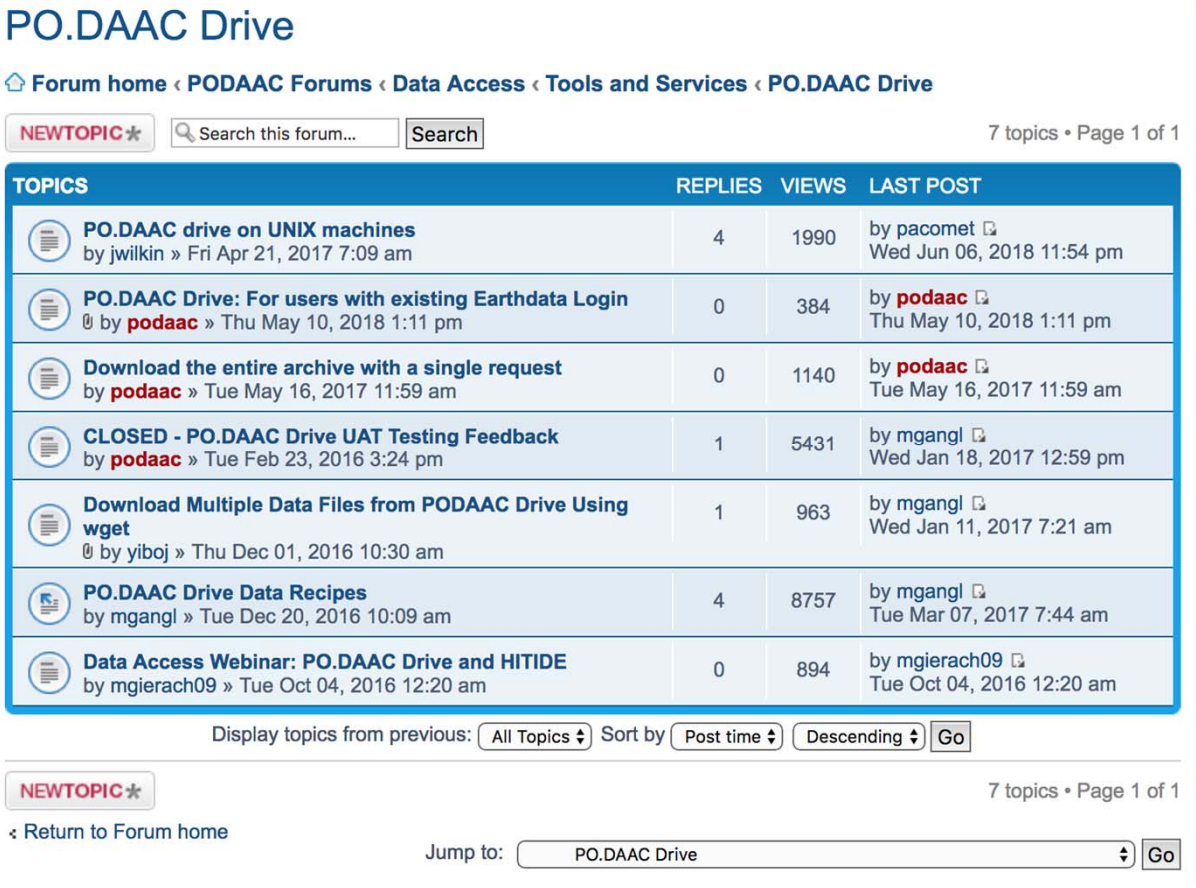
PO.DAAC Drive supports Mac OS X 10.9 and higher.

From the Finder, click Go/Connect to Server, or press ⌘-K.

In the window that appears, enter the following under **Server Address**: `https://podaac-tools.jpl.nasa.gov/drive/files`

Click **Connect**.

- https://podaac.jpl.nasa.gov/drive_forum
  https://podaac.jpl.nasa.gov/drive_recipes
- There will be webinars to help users switch over from FTP



sponsorship acknowledged.

Other ways to access data

- Can still access data via
  - OPeNDAP
  - THREDDS
  - web services
  - HiTIDE

Web Services

The following is the list of available PO.DAAC Web Services

Name	Description
Dataset Metadata	Dataset metadata service retrieves the metadata of a dataset on PO.DAAC's dataset catalog using the following parameters: datasetId, shortName, and format.
Dataset Search	Dataset Search service searches PO.DAAC's dataset catalog, over Level 2, Level 3, and Level 4 datasets, using the following parameters: datasetId, shortName, startTime, endTime, bbox, and others.
Dataset Variables	Provides list of dataset variables.
Granule Metadata	Granule metadata service retrieves the metadata of a granule on PO.DAAC's catalog using the following parameters: format and other optional parameters.
Granule Search	Search Granule does granule searching on PO.DAAC level 2 swath datasets (individual orbits of a satellite), and level 3 & 4 gridded datasets (time averaged to span the globe). The following parameters are supported: datasetId, startTime, endTime, bbox, and others.
Granule Preview	The PODAAC preview Image service retrieves pre-generated preview images for selected granules. This service uses a template provided by the Granule Search service and, therefore, Granule Preview must be preceded by Granule Search.
Granule Subset	Subset Granule service allows users to Submit subset jobs. Use of this service should be preceded by a Granule Search in order to identify and generate a list of granules to be subsetted.
Subset Status	Subset Granule Status service allows users to check the status of submitted subset job.

Examples

This example python script shows an entire subsetting workflow using the PO.DAAC Web Services, exercising several of the services: datasets are searched (Dataset Search); variables in the found datasets are identified (Dataset Variables); granules meeting search criteria are found (Granule Search); and the identified granules are subsetted (Granule Subset). Before running this script, email_address variable need to be changed to a valid email address to receive the result. Use the following command to run the script

```
python cws_example.py
```

Questions

- Web Portal
  - https://podaac.jpl.nasa.gov
- Forum
  - https://podaac.jpl.nasa.gov/forum/
- Drive
  - https://podaac-tools.jpl.nasa.gov/drive