

# Advanced Data Access.

What if the dashboard can't do what you want? Well, this little tute will show you a method for access the ereefs data in your own way using freely available tools.

*This is almost entirely a live demo and so these notes are a bit sparse.*

**Key outcomes:** If you get nothing else out of this brief session i hope you will understand that:

- there are alternative ways to access the eReefs satellite datasets.
- you will have a basic overview of the thredds catalog and folder structure.
- you will be able to use the Panoply software to do advanced data interrogation.

## Exploring Thredds and opendap

Live web based exporation.

## Panoply

A good manual can be found here:

[http://www.meteor.iastate.edu/classes/mt452/EdGCM/Documentation/EdGCM\\_Panoply.pdf](http://www.meteor.iastate.edu/classes/mt452/EdGCM/Documentation/EdGCM_Panoply.pdf)

A copy of this is included in the media folder here:

[EdGCM\\_Panoply.pdf](#)

## Load a dataset

Datasets can be loaded from local sources on your computer, or accessed via the world wide web.

## Accessing a Local Dataset

- Demo how to download a file from the mwq dashboard and open it in Panoply.

**Accessing the eReefs THREDDS Data Server** Connect to the thredds data sevrer and show the structure and how similar it looks to the web version.

1. “File”/“Open Remote Catalog”/:
2. Paste in the THREDDS Data Server Catalog:

<http://ereeftds.bom.gov.au/ereefs/tds/catalog.html>

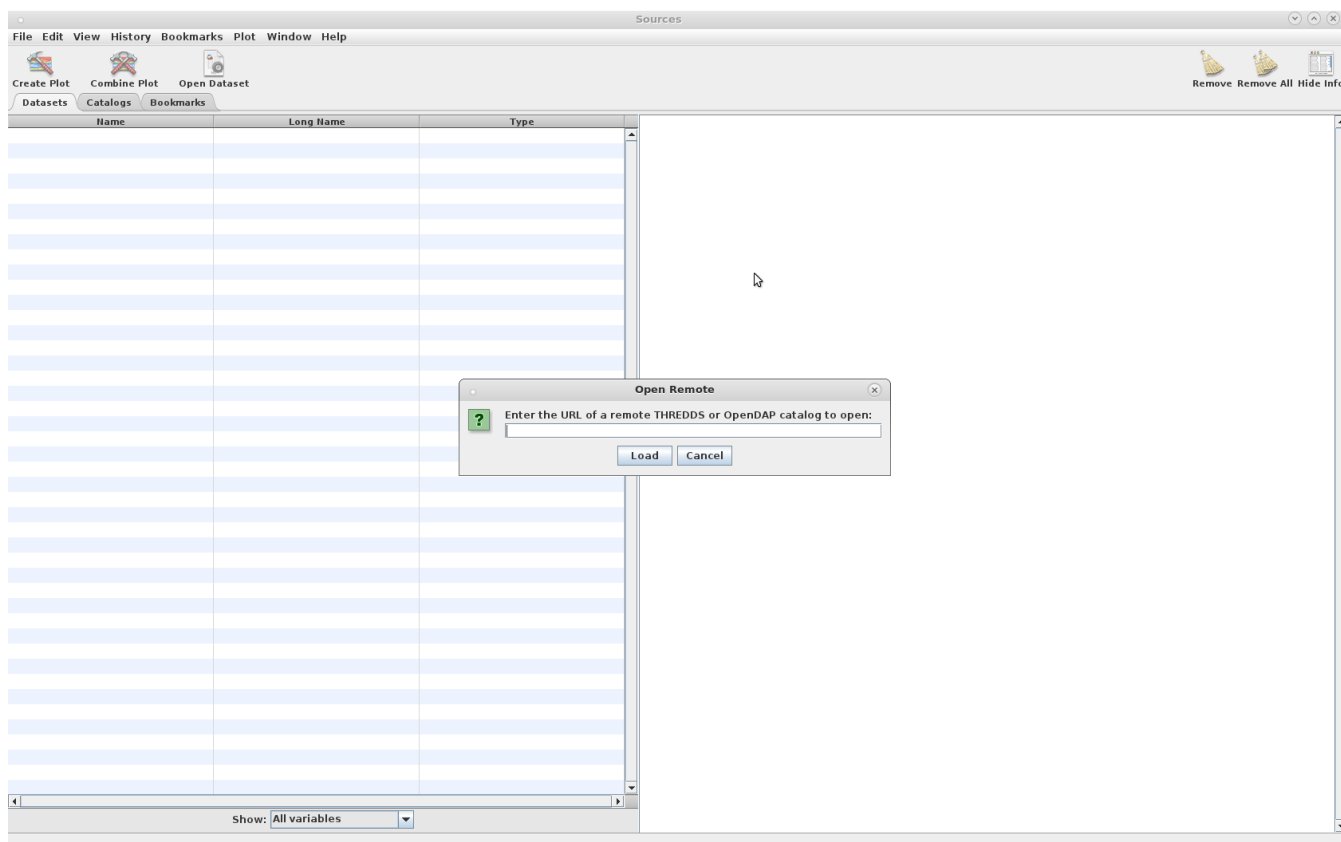


Figure 1: panoply\_2.png

3. You can now navigate through the THREDDS catalog in the “Catalogs” Tab:

*N.B:* The Folder names refer to periods of time that the data have been aggregated over: P1D = Period one day, P6M = Period 6 months.

4. Once you’ve found the file you’re interested in you can click on the “Open Dataset” button in the toolbar:
5. You can now inspect the file and the datasets it contains using the “Datasets” tab:

**Plotting that data.** To make a plot of the dataset you just selected (see above) you click on the “Create Plot” button in the toolbar:

## Exercise

The excersise will be the same as Jamie’s dashboard example but using the panoply software.

*Panoply Challenge:*

1. Connect to the eReefs THREDDS Data Server Catalog.

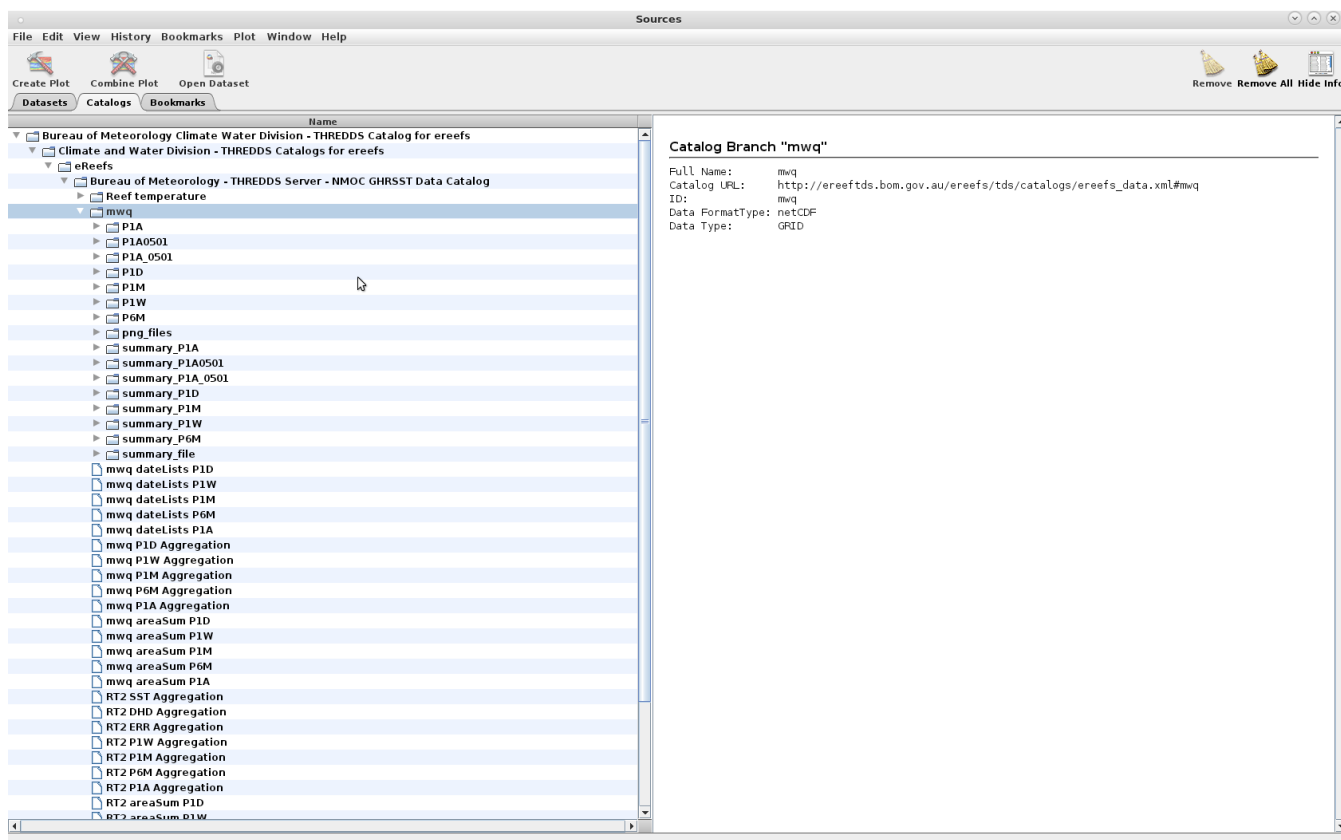


Figure 2: panoply\_3.png

2. Plot the last DHD image from the summer.

Extra:

3. Plot last months maximum Chlorophyll values.

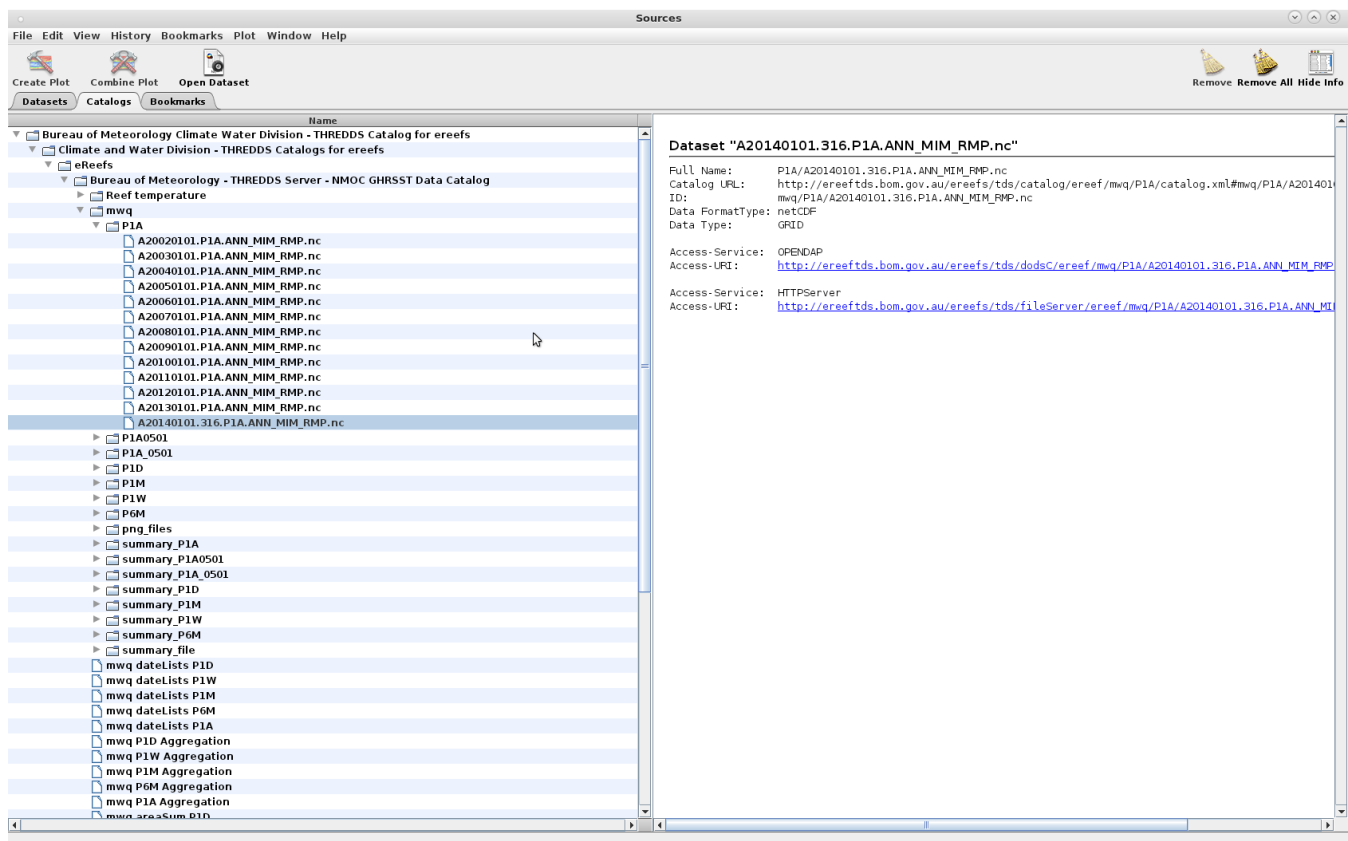


Figure 3: panoply\_4.png

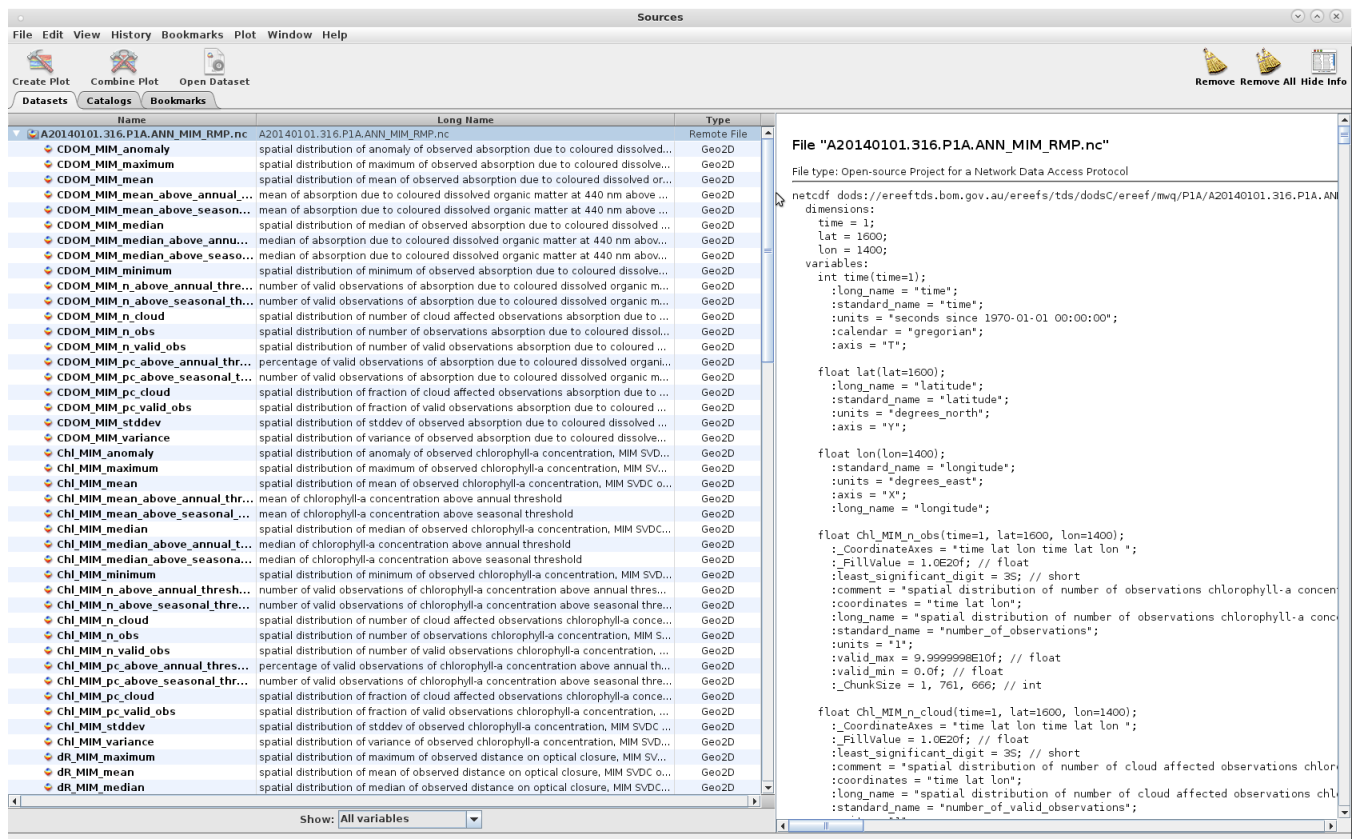


Figure 4: panoply\_5.png

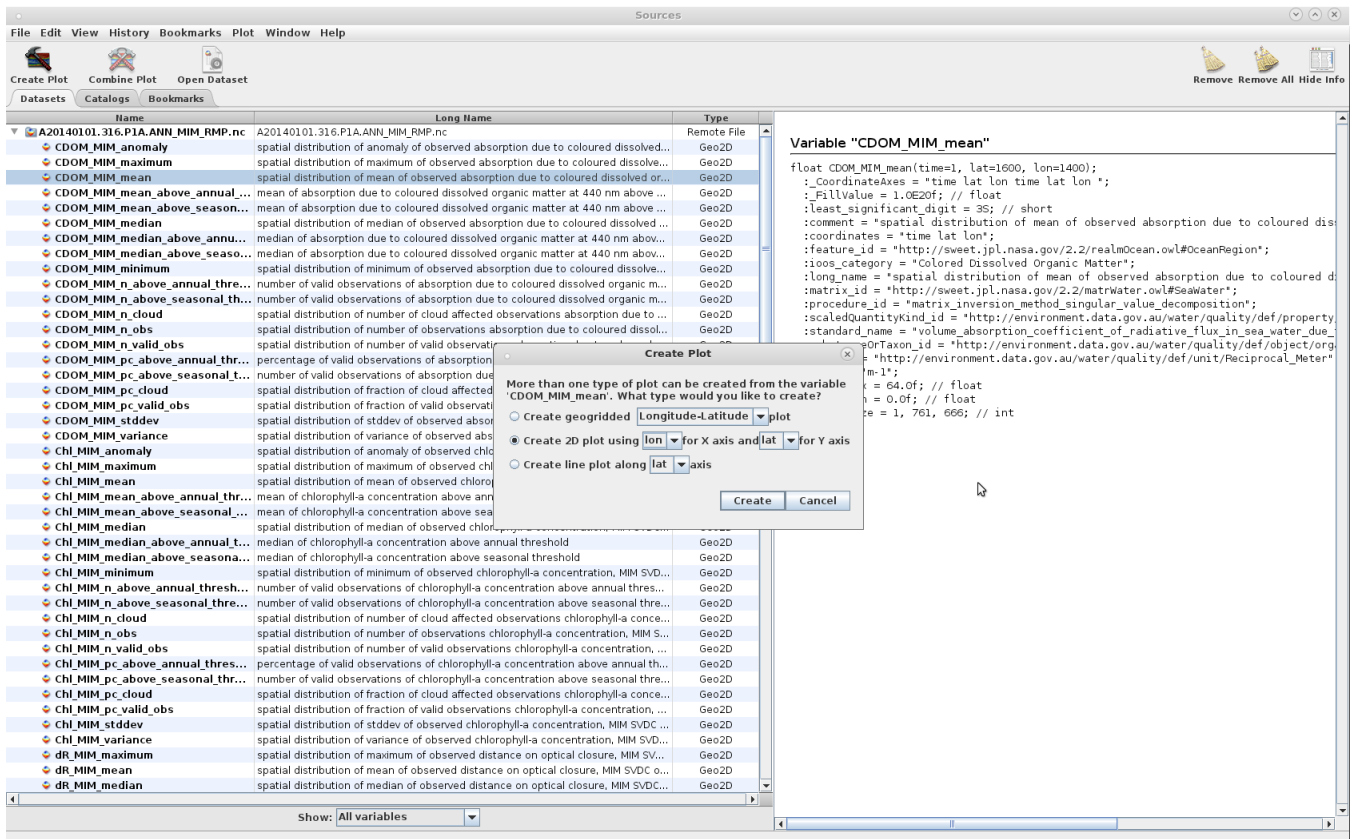


Figure 5: panoply\_6.png

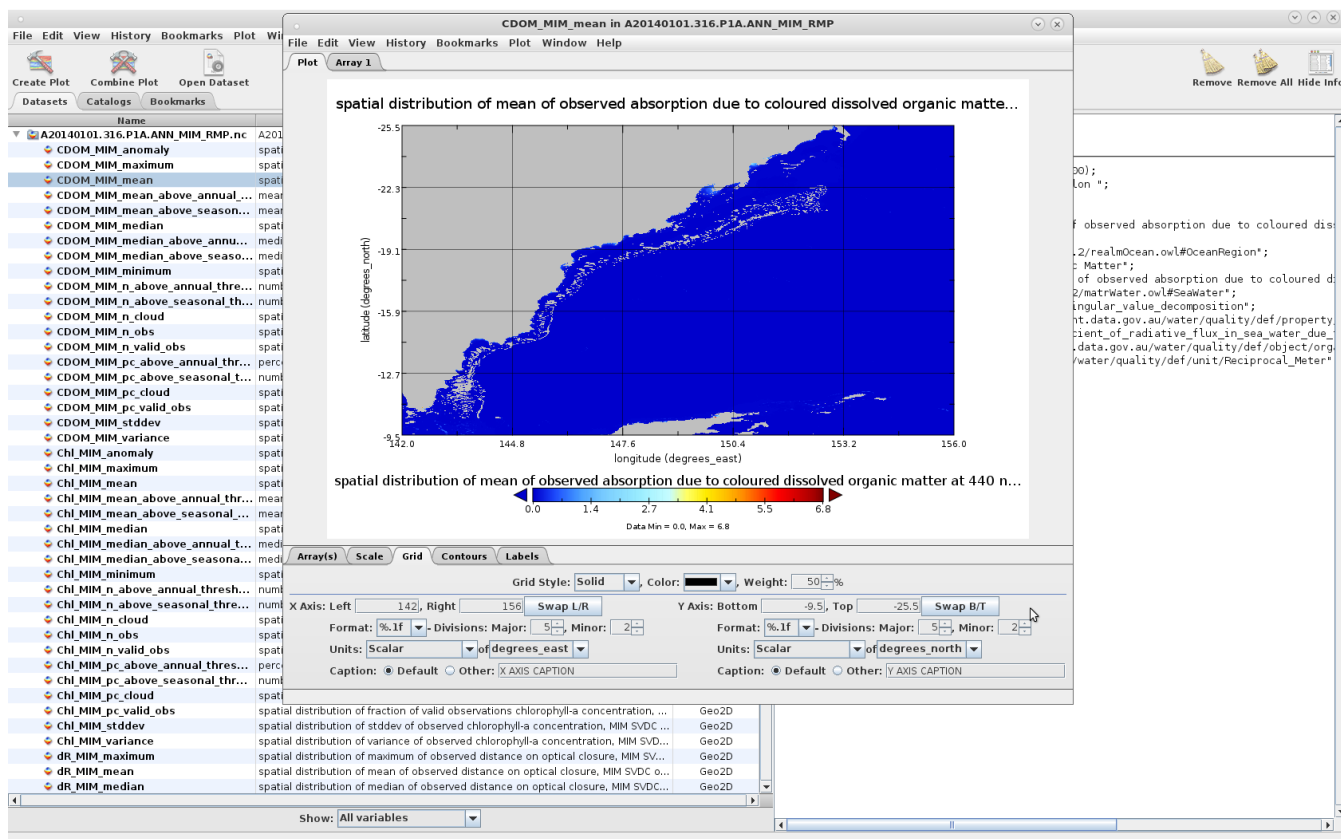


Figure 6: panoply\_7.png