Overview of

*Step-by-Step* Tutorials

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Step-by-Step Tutorials

• Set of print/videos tutorials have been developed specifically for the ADVICE webinar series

• 11 tutorials are designed to help you:
  – *Access* data;
  – *Customize* data for your own research purposes; and
  – *Create* various types of data products

• These tutorials are *evergreen* resources... please continue to use them as needed!
Step-by-Step Tutorials

Visualization

Web Portal

Services & Tools for Accessing & Subsetting Data
*Also have visualization capabilities

Aquarius L3 Image Browser

Panoply

THREDDS Data Server

Web Services

OPeNDAP

Live Access Server

FTP
1. Introducing the PO.DAAC
2. How to Access Aquarius Datasets through the PO.DAAC

Related Tutorials:
- PO.DAAC Website
- THREDDS
- OpenDAP
3. Downloading a NetCDF File from the PO.DAAC THREDDS Server

[Image of a webpage showing the process of selecting variables and subsets for downloading a NetCDF file from a THREDDS server.]
4. Downloading Files from the PO.DAAC OPeNDAP Server

Related Tutorials:
- Aquarius Mission
- Dataset Discovery
- THREDDS

Contents of /allData/aquarius/L3/mapped/V4/monthly/SCISMD

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5. Panoply Orientation

Related Tutorials:
Download NetCDF³
6. Visualizing Data Using Panoply: Longitude-Latitude Plots

Related Tutorials:
- Install Panoply
- Download NetCDF
- Combined Plots
- Export Plot
7. Visualizing Data Using Panoply: Line Plots

Related Tutorials:
Install Panoply
Download NetCDF
Export Plot

Create Plot

More than one type of plot can be created from '1m_data'. What type would you like to create?

- Create georeferenced (Longitude-Latitude)
- Create 2D plot using [lat] for X axis, [lon] for Y axis
- Create line plot along [time]

Plot: sea surface salinity

Array 1: 1m_data

Times: 1 of 47 - 2011 06 01

Longitude: 1 of 360 = -179.5

Export Plot
8. Visualizing Data Using Panoply: Hovmöller Plots

Related Tutorials:
Install Panoply
Download NetCDF
Customize Your Plot
Export Plot

Create Plot
More than one type of plot can be created from the 13m_data. What type would you like to create?
- Create georeferenced Longitude-Latitude
- Create 2D plot using Latitude-Time
- Create horizontal Time-Latitude

Plot: Array 1 Only
Array 1: 13m_data
Longitude: 153 of 360 - 27.5000 "E - Avg
9. Comparing Data Using Combination Plots in Panoply

Related Tutorials:
- Install Panoply
- Download NetCDF
- Customize Your Plot
- Export Plot

Array 1 Only
Array 2 Only
Array 1 – Array 2
Array 2 – Array 1
Array 1 + Array 2
Array 1 × Array 2
Array 1 / Array 2
Array 2 / Array 1
(Array 1 – Array 2) / Array 2
(Array 2 – Array 1) / Array 1
Average
Merge

Vector Magnitude

Filtered Zonal Velocity

Sort(|Filtered Zonal Velocity|^2 + |Filtered Meridional Velocity|^2) (meter/sec)

Data Min = 0.0, Max = 0.9, Mean = 0.1

Sea surface salinity

Plot Map of Array 2 - Array 1
Array 1: 3m_data
Array 2: 13m_data
Time: 1 of 47 = 2011-08-01

NASA

ADVICE
10. Using Panoply to Create Images, Animations & GoogleEarth-ready Files

Related Tutorials:
Install Panoply
Download NetCDF
Create a Plot
GoogleEarth

![Panoply Menu Screenshots]

- Save Image
- Save Image As
- Export KMZ
- Export Animation

![Panoply Menu Screenshots]

- Export KMZ
- Export Animation

![Panoply Menu Screenshots]

- Export KMZ
- Export Animation

NASA | Ocean | NASA | ADVICE

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11. How to Make a Movie of Your Plot in Google Earth & Google Earth Pro

Related Tutorials:
Install Panoply
Download NetCDF
Create a Plot
Export to KMZ

Making a Movie to Be Shared Outside of Google Earth Pro

Making a Movie to Be Viewed Inside Google Earth/Google Earth Pro