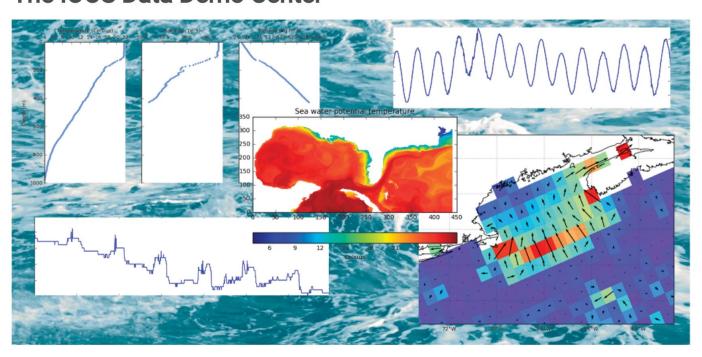




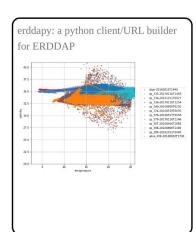
#### OTHER RESOURCES

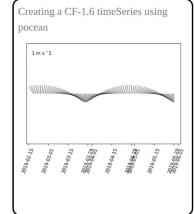
- 1. Installing the IOOS conda environment
- 2. Opening netCDF files hints from AODN
- 3. Unidata Jupyter notebook gallery
- 4. Extracting and enriching OBIS data with R
- 5. USGS-R examples

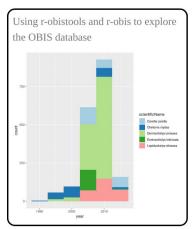
### The IOOS Data Demo Center

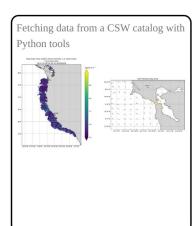


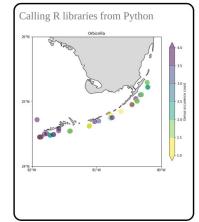
The IOOS Notebook Gallery is a collection of tutorials and examples of how to access and utilize the many IOOS technologies and data sources available. This site is geared towards scientists and environmental managers interested in "diving deep" into the numbers and creating original plots and data analysis. Most notebook examples are written in Python, however, we also have a growing number of notebooks written in Matlab, and R.

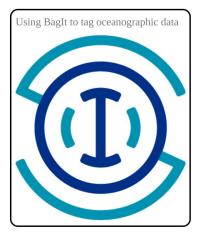


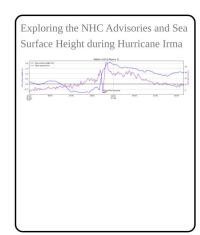


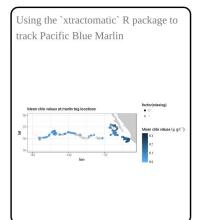


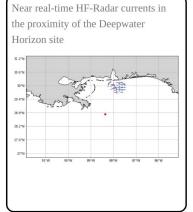












## Examples are great for community building!

## And we also get from the Data Demo Center:

- bug reports from people who are not GH savvy;
- data Integration tests;
  - bad metadata;
  - bitrot: disappearing data, URL change, etc.
- environment installation tests on macOS, Linux and Windows.
- future proofing / early testing of the libraries as they evolve.

Please send examples, data/library requests of what you want to see, and advertise the site on your local community!

https://ioos.github.io/notebooks\_demos/code\_gallery



https://www.bco-dmo.org/dataset/549122





# HoloViz.org



### High-level tools to simplify visualization in Python.

Welcome to HoloViz! HoloViz is a coordinated effort to make browser-based data visualization in Python easier to use, easier to learn, and more powerful.

#### HoloViz provides:

- · High-level tools that make it easier to apply Python plotting libraries to your data.
- · A comprehensive tutorial showing how to use the available tools together to do a wide range of different tasks.
- · A Conda metapackage "holoviz" that makes it simple to install matching versions of libraries that work well together.
- · Sample datasets to work with.

#### HoloViz-maintained libraries















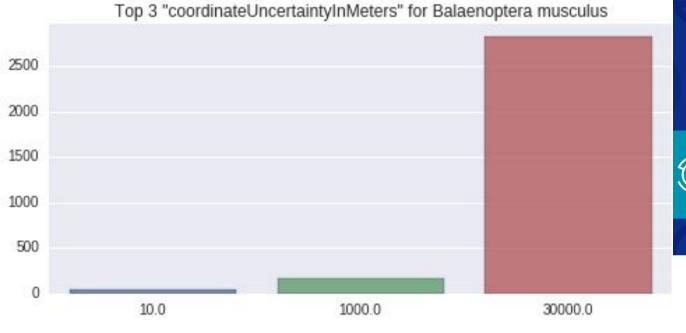
EYES ON THE OCEAN





# OBIS data access demo

- R within py
- py within R







### Why bother?

Cache web page on device Provide native app-like experience

### Some links:

https://developers.google.com/web/progressive-web-apps

https://developers.google.com/web/progressive-web-apps/checklist

https://blog.bitsrc.io/how-to-build-a-react-progressive-web-application-pwa-b5b897df2f0a

What you seem to need to do:

Go HTTPS Register your service worker

What happens?

https://ioos-pwa.limno.tech/ - open it, wait 5-10 minutes, open it again, add it to home screen

What next?

Look at feasibility of PWA'ing the ERDDAP viewer we're working on







