

### OUR GOAL

- Publish the largest possible collection of high-quality OPeNDAP accessible data sets.

### METHODS

1. Create a catalog of THREDDS Data Servers from NOAA and selected partners.
2. Crawl the entire collection, writing a new catalog hierarchy eliminating any candidate catalogs containing un-aggregated time series or non-OPeNDAP data sources.
3. Verify that each of the resulting data sources contains a CF-Compliant netCDF data set.
4. Collect Discrete Sampling Geometry datasets into a central ERDDAP server.
5. Publish the results in a THREDDS Data Server, a Live Access Server and an ERDDAP server (with both the grid and discrete sampling data sets).
6. Collect and publish ISO-19115 metadata for each data set into noaa.data.gov, data.gov and NOAA One-Stop.

### RESULTS

- 12420 data sets available from your favorite server using your favorite scientific analysis and visualization software.
- Searchable and discoverable via the standard NOAA and federal data repositories.

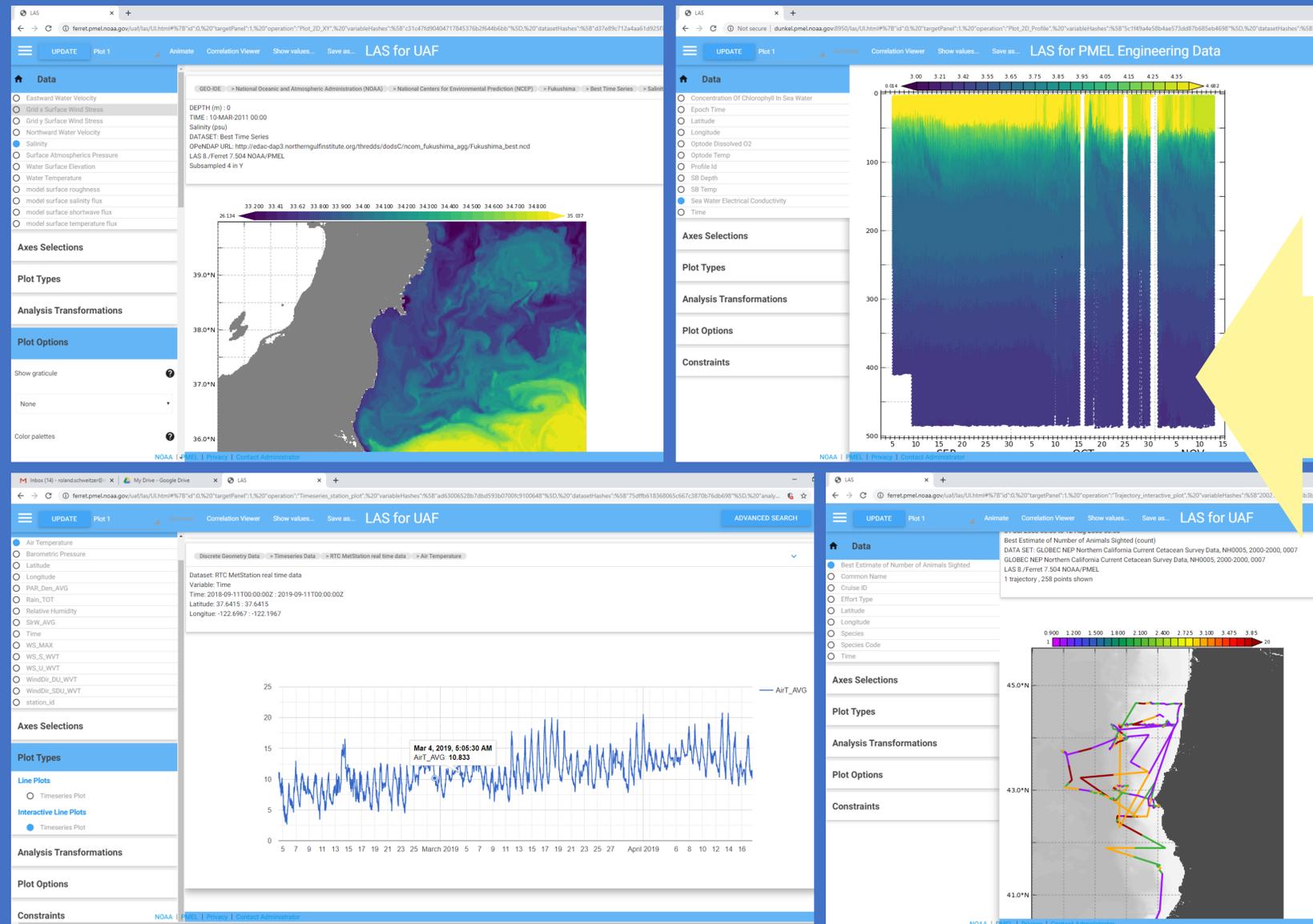
### DISCUSSION

- With the right approach (copying existing successful standards and data services) and the right software (big data servers like THREDDS OPeNDAP, ERDDAP and data catalogs) and a little software glue (the UAF Catalog Cleaner and nCISO) a few people can produce and maintain a large high-quality data service filled with useful and discoverable data sets.

About LAS



# Find out how a few nerds manage a data collection of 12,000+ data sets with open-source software, ingenuity and a bit of custom software glue.



Managing a Community Data Collection with Open Source Software  
IN33B-0826

Roland Schweitzer, Ethan Davis, Sean Cody Arms, Robert Simons, Kevin O'Brien, David Neufeld

## THE FOSS and the GLUE

### FOSS:

THREDDS Data Server  
<https://github.com/Unidata/thredds>

ERDDAP  
<https://github.com/BobSimons/erddap>

Live Access Server (v8)  
<https://github.com/NOAA-PMEL/LAS>

Live Access Server (v9)  
<https://github.com/NOAA-PMEL/las9>  
(coming soon)

### GLUE:

UAF Catalog Cleaner  
<https://github.com/NOAA-PMEL/FastClean>

nCISO  
<https://github.com/NOAA-PMEL/uafnciso>

Try LAS 9  
(not optimized for mobile)

