Towards Something Better
Who am I, and what am I talking about?

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Software Engineer at JPL  
Built the current CEOS Portal with Jeff Hall

My team is developing a new web based data interaction application for PO.DAAC
Some Examples
Worldview

https://worldview.earthdata.nasa.gov
Sea Level Change Portal

https://sealevel.nasa.gov/data-analysis-tool/
What makes these useful?

Dynamic Displays
- Adjustable dates, and areas of interest
- Custom colorbars
- Animating layers over time

On Demand Analysis
- Quick-look statistics (trends, means, standard dev.)
- Correlating disparate datasets

Exportability
- Sharing results and findings with your community
Enter SOTO (State of the Oceans)

Primary Goals

- Generate maps, animations, and analyses
- Illustrate scientific findings
- Track and predict trends

High-level architecture requirements

- PO.DAAC - data storage, management, and dissemination
- NEXUS - analytics platform
- OnEarth/GIBS - image service
- RiPTIDE - web client
Where are we now?

- Defining our goals and user community
- Collecting use cases
- Developing exploratory mockups
- Researching the scope of the system architecture
Why do you care?

- Use our use cases for inspiration
- Look at our mockups and related products to see what’s out there
- What part of our architecture can be ported to you?

Are you one of our users?