

**Towards Something Better**



# Who am I, and what am I talking about?

Flynn Platt

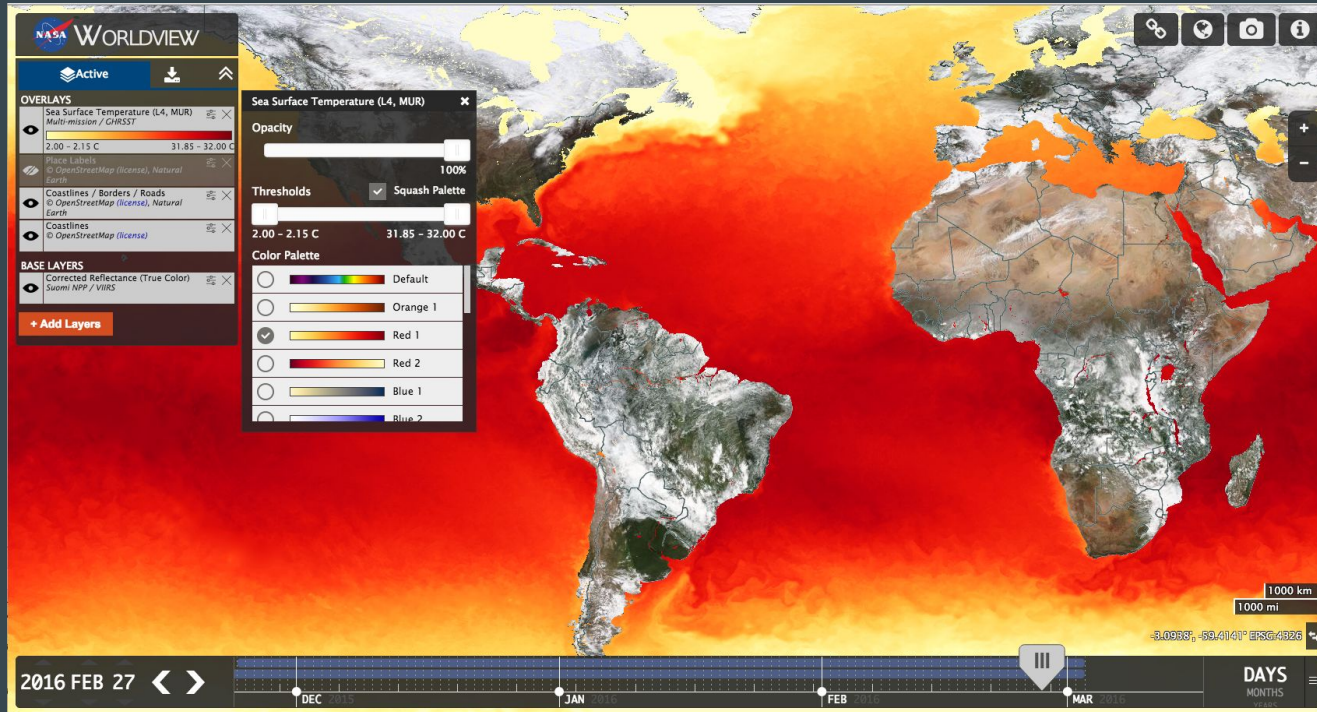
Software Engineer at JPL

Built the current CEOS Portal with Jeff Hall

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

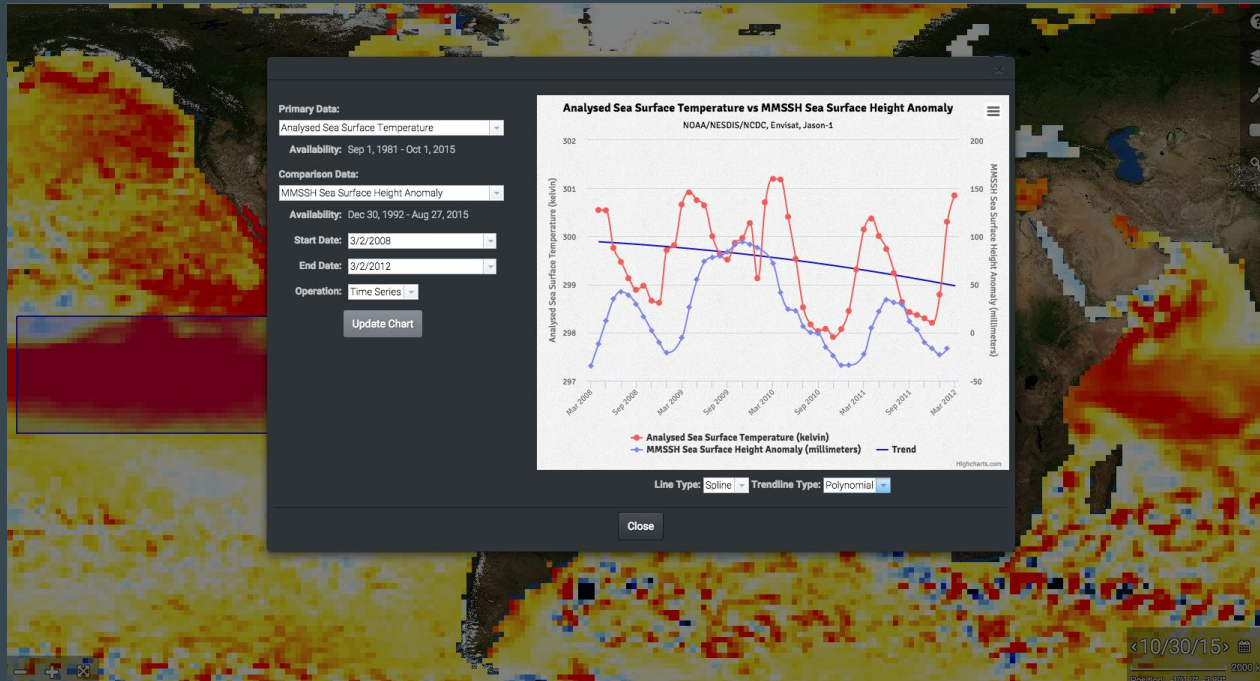
# Some Examples

# 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?

**FIN**