

# Global Visualizations with NOAA's TerraViz

Jeff Smith

CIRA

Performing work for ESRL/GSD

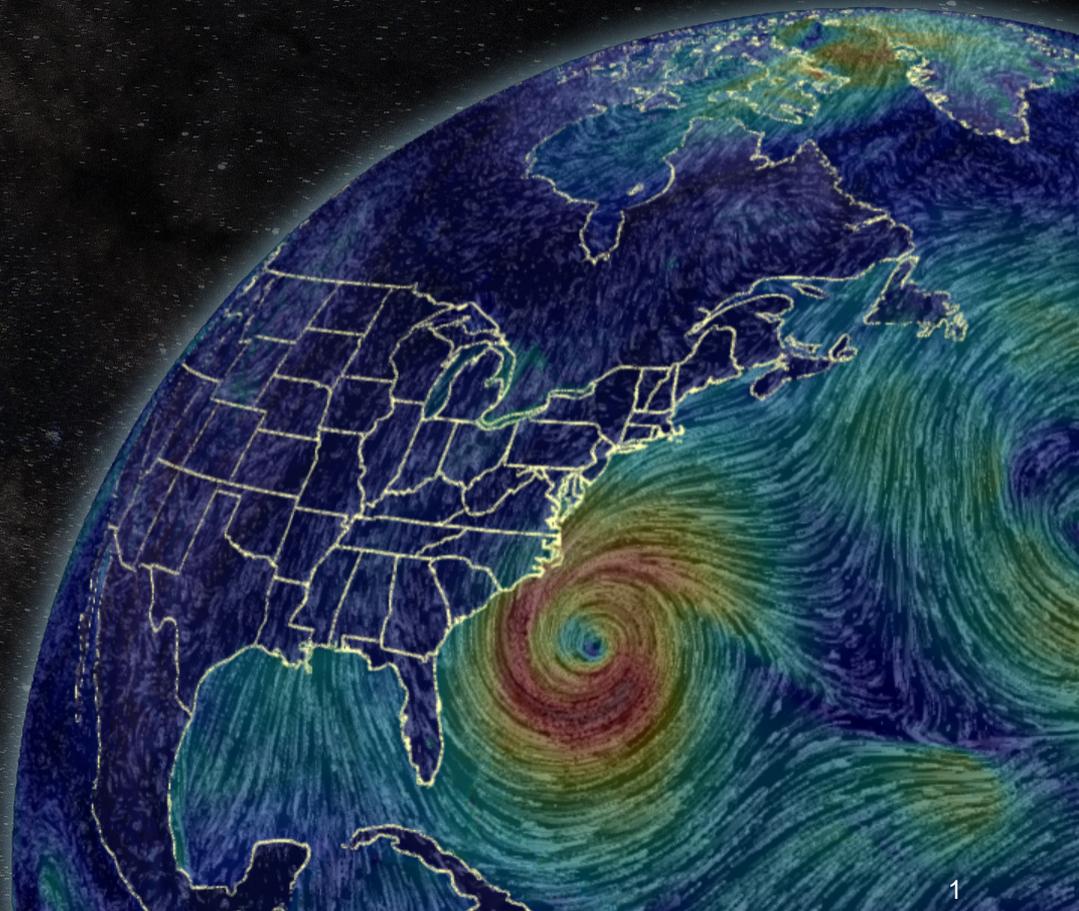
Beth Russell

CIRES

Performing work for ESRL/GSD



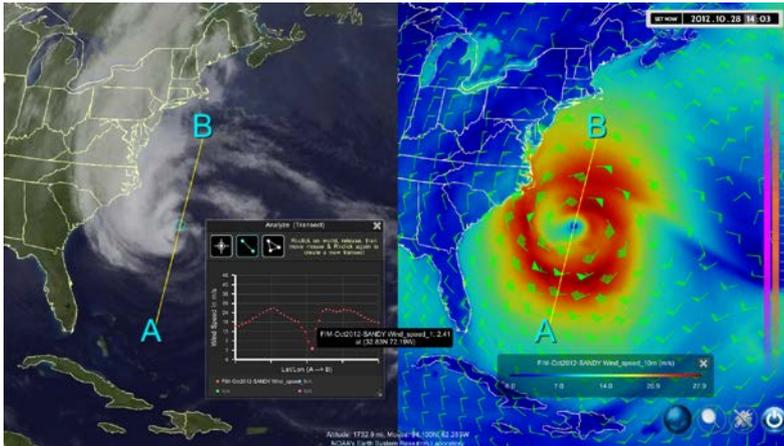
GSD Science Review  
3-5 Nov 2015



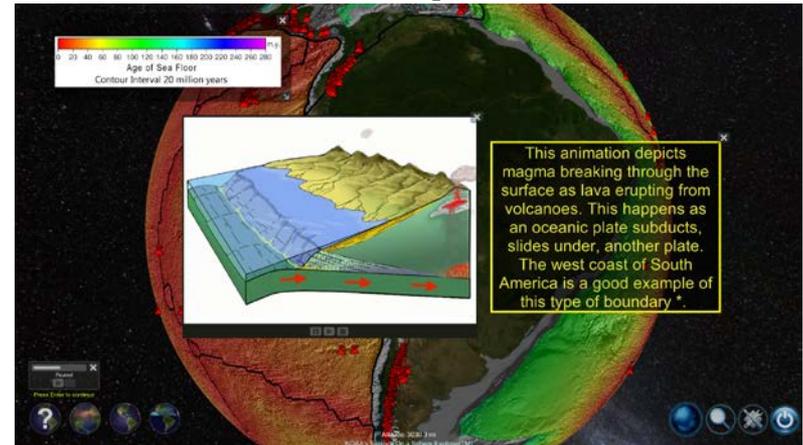
# Visualization for Everyone

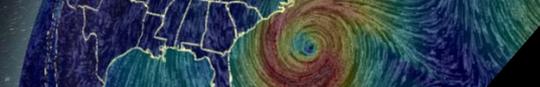
- TerraViz is a NOAA-developed environmental data visualization tool built on top of a 3D game engine
- Has been formatted for different users to view global data
- Pulls data from many sources and visualizes the world in motion

## NOAA Earth Information System

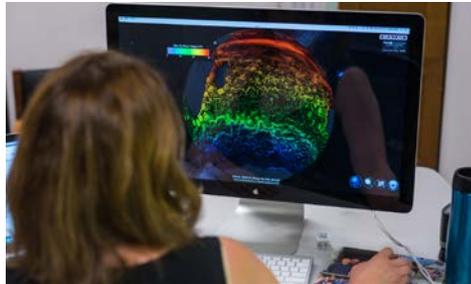
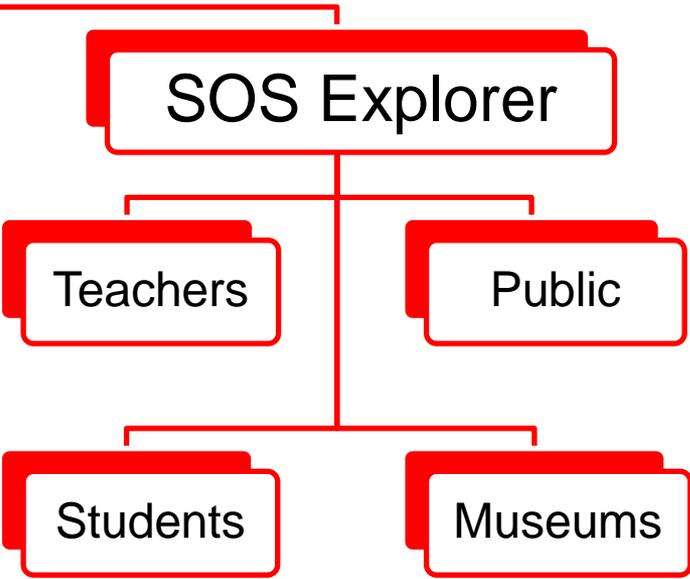
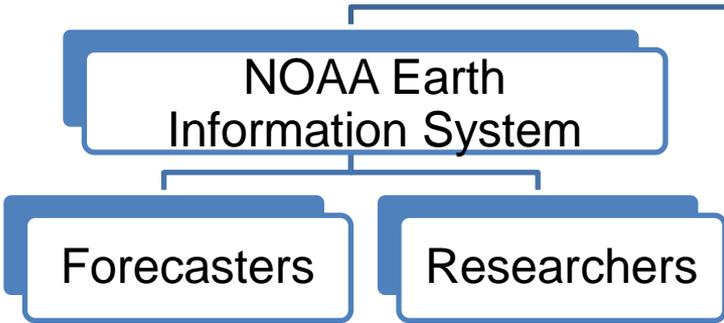


## SOS Explorer



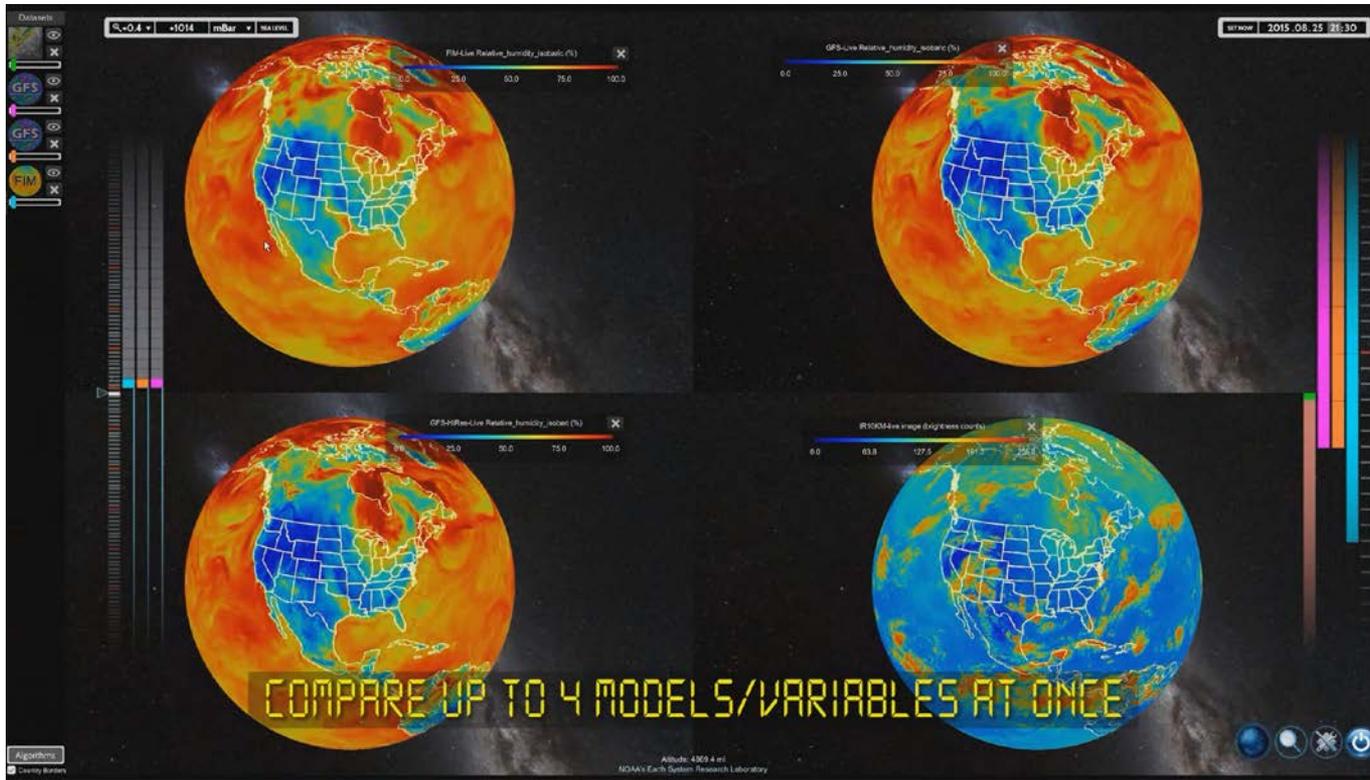


# TerraViz



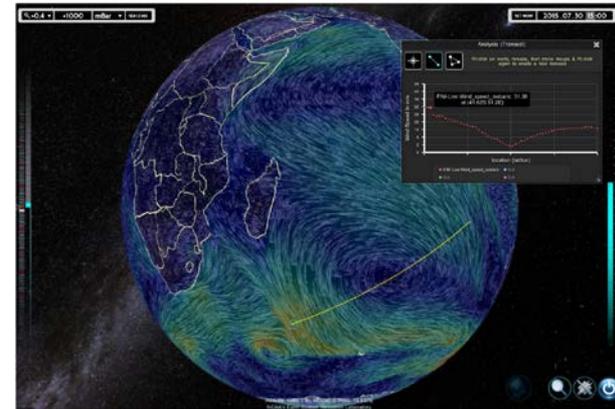


# NEIS Preview



# Why Visualization?

- Enables scientists to visualize both forecasts and observations in novel ways
- Provides new insights into the phenomena and guides research into productive directions
- Brings the SOS experience into the classroom and home
- Allows teachers and informal educators to incorporate easily accessible data visualizations into their lessons
- A majority of people are visual learners



# Next Steps

## SOS Explorer:

- Touchscreen version
- More SOS datasets
- Custom content



## NEIS:

- Global Hawk flights
- Very high resolution satellite and weather model data