



THE UNIVERSITY OF UTAH

**Atmospheric
Sciences**

SEMINAR ANNOUNCEMENT

Online Data Visualization in the Atmospheric Sciences

Since the mid-1990s, weather observations and model output have been displayed in some form or fashion online. These early static images, along with graphics shown on television, have in large part shaped the way in which we view weather. This in turn shapes the way that we as scientists convey our research, using familiar techniques and display schemes to visualize our data. Often this means that we seek ways of representing structures in two dimensions, even though our field works in an inherently three (and four) dimensional space. In the last five years, advances in web browsers and the associated web programming languages - JavaScript, HTML, and CSS – have allowed for the development of tools capable of displaying data in all of their dimensions. This presentation will show examples of web applications developed to highlight three- and four-dimensional data, focusing on tools that are interactive and visually compelling. It will go into the technology behind these visualizations, and discuss how these techniques can be applied when performing and publicizing research.

Matt Lammers

**PPS Senior Science Data Visualization Analyst/Software
Engineer, NASA Goddard Space Flight Center**

**Wednesday, September 13, 2017, at 3:15pm
110 INSCC
Refreshments and Meet the Speaker at 3:00pm**