

PSD Web-based Visualization and Analysis Tools

Catherine Smith and the PSD Web/Data Staff

Purpose: Make it quick and easy to create value added weather/climate products and analyses

Examples of Types of Climate/Wx Analysis Tools:

- *Composite:* Average different dates/times
- *Comparison:* Reanalyses and observed
- *Time-series:* Extraction, Correlation, Climate Indices
- *Specialized:* Correlation, Trajectories, Vertical Profiles, EP Flux

Users:

- PSD and NOAA Scientists, NOAA NWS & NMFS, Other Researchers, Resource Managers, Universities, Students, Media, Private Companies, General Public

Why PSD:

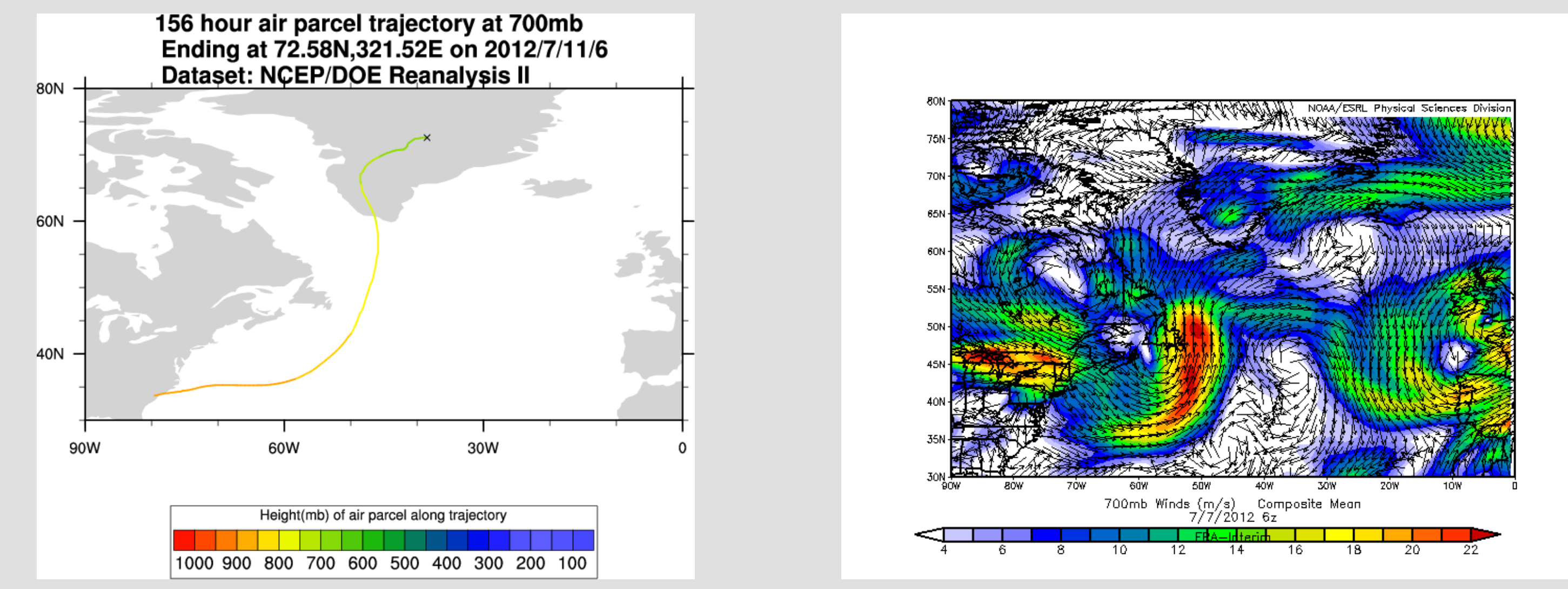
- We leverage our expertise in climate/weather analysis and our data to make useful products
- Our goal is to provide the tools needed for users to answer their questions about weather and climate

Web Stats: >4.3 million plots produced in last year (1% at PSD)

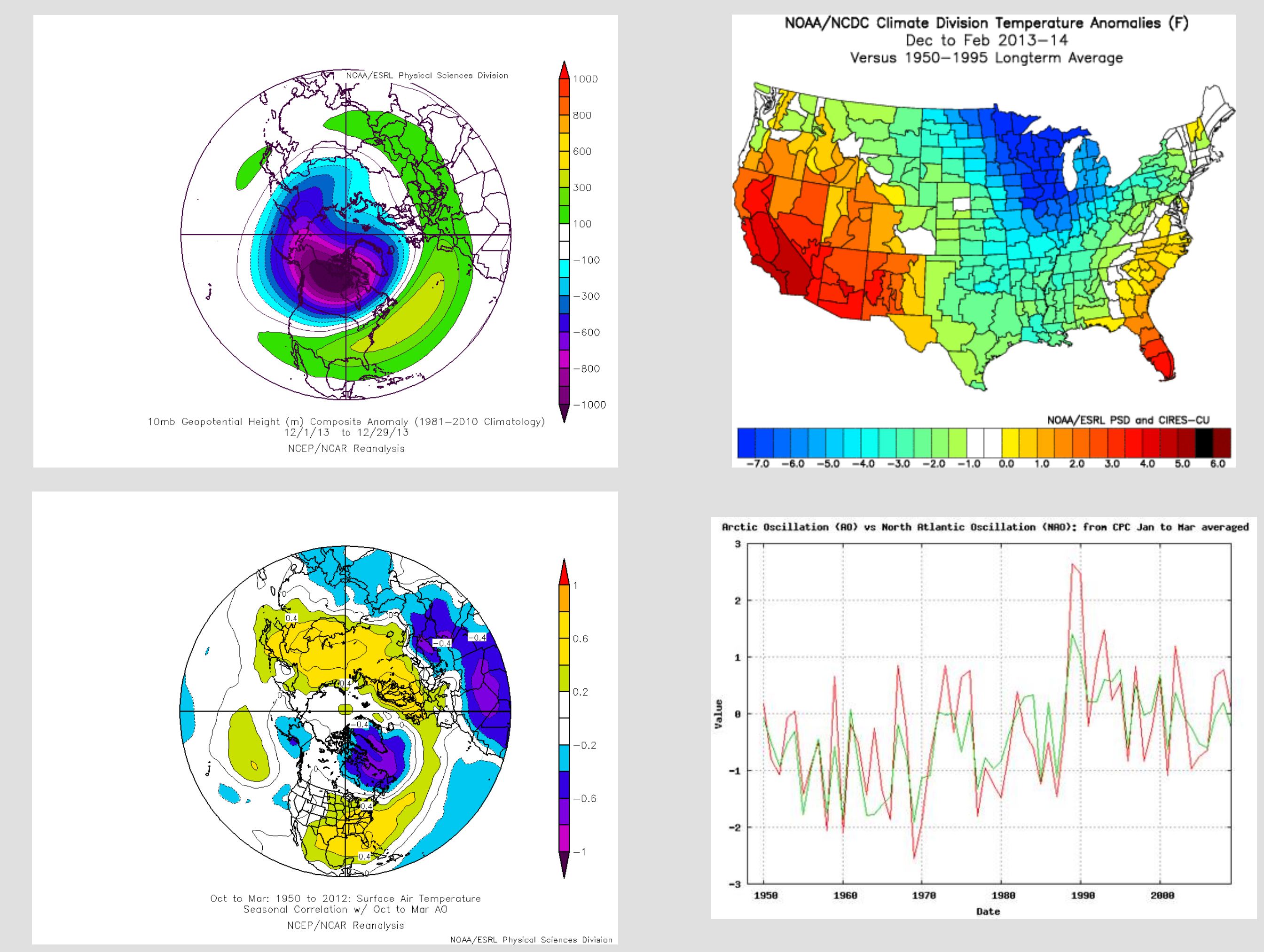
2013 AMS Special Award to Catherine Smith for her role in providing these products

Examples:

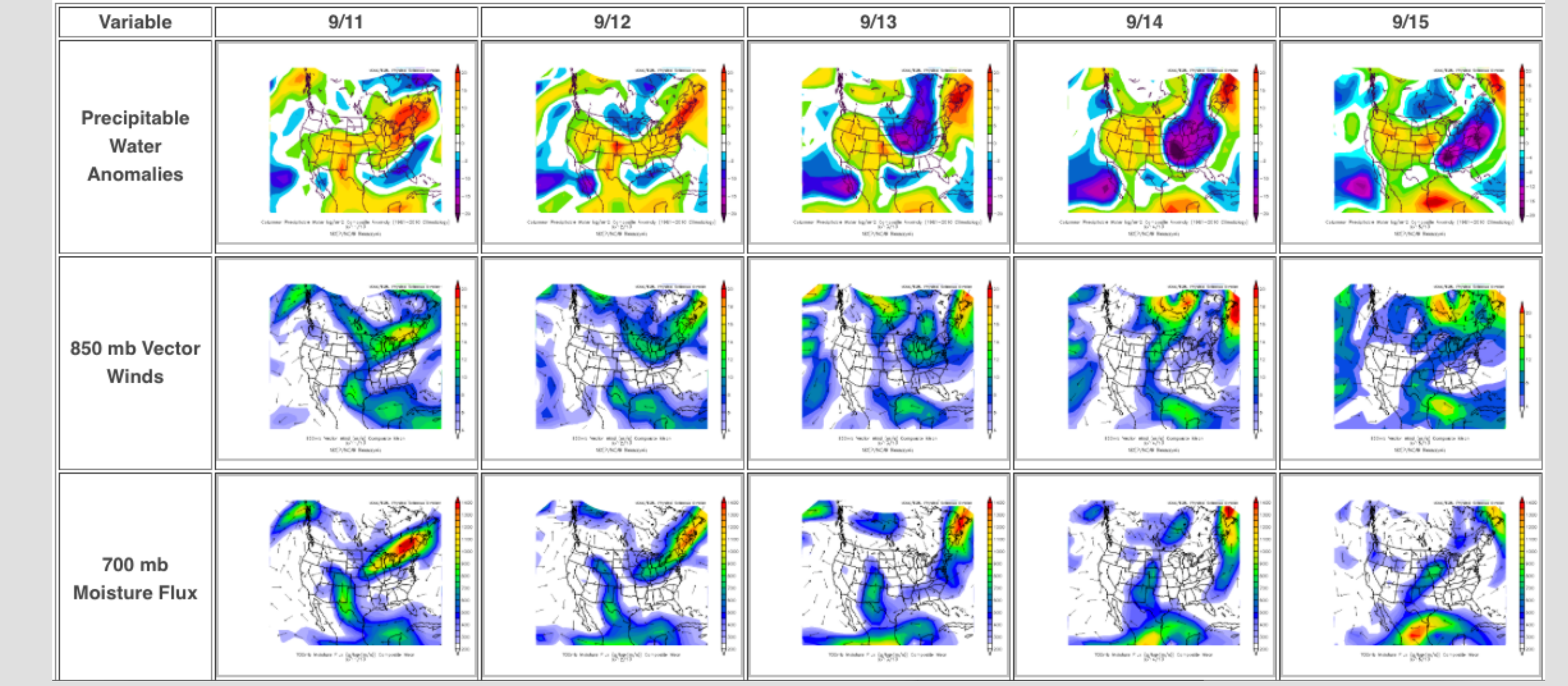
Greenland "AR" 2012 and 1889: PSD Exploratory Science (Composites, Trajectories)



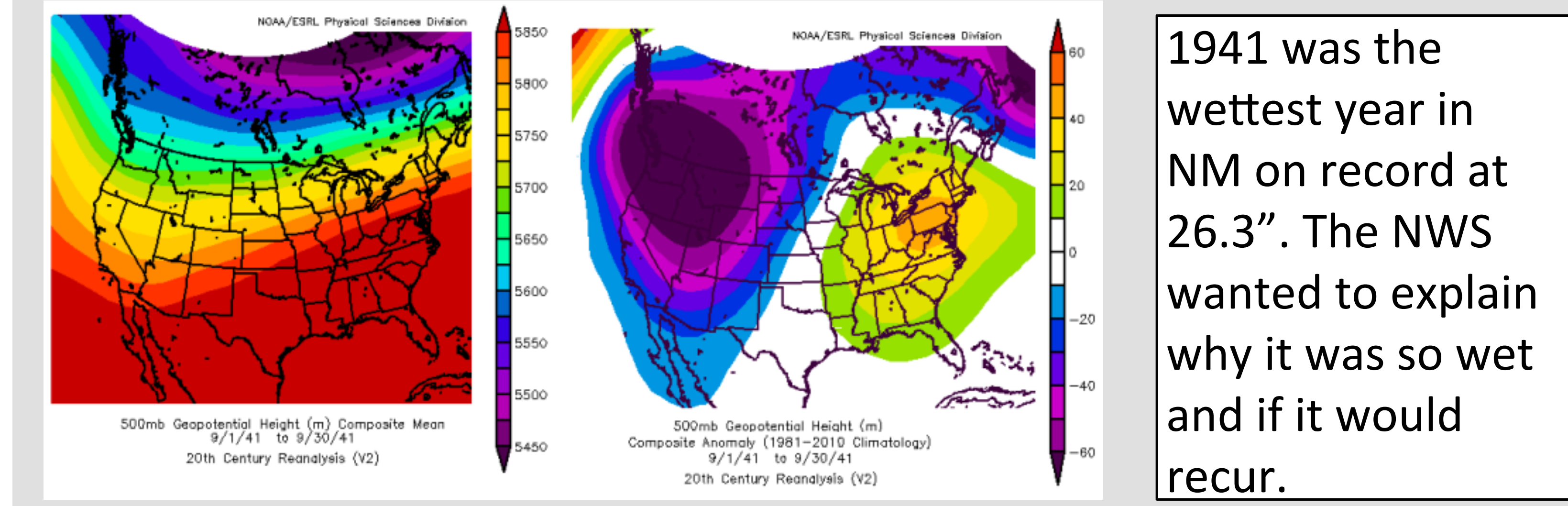
Polar Vortex of 2013-2014: Media and Blogs (Composites, Climate Division Maps, Correlations, Time-series)



CO Front Range Flood Sep 2013: PSD Rapid Response (Composites)



NWS Analysis of 1941 NM precipitation: (Composites)



What's New: (Vertical Profiles, Intercomparison Tools...)

