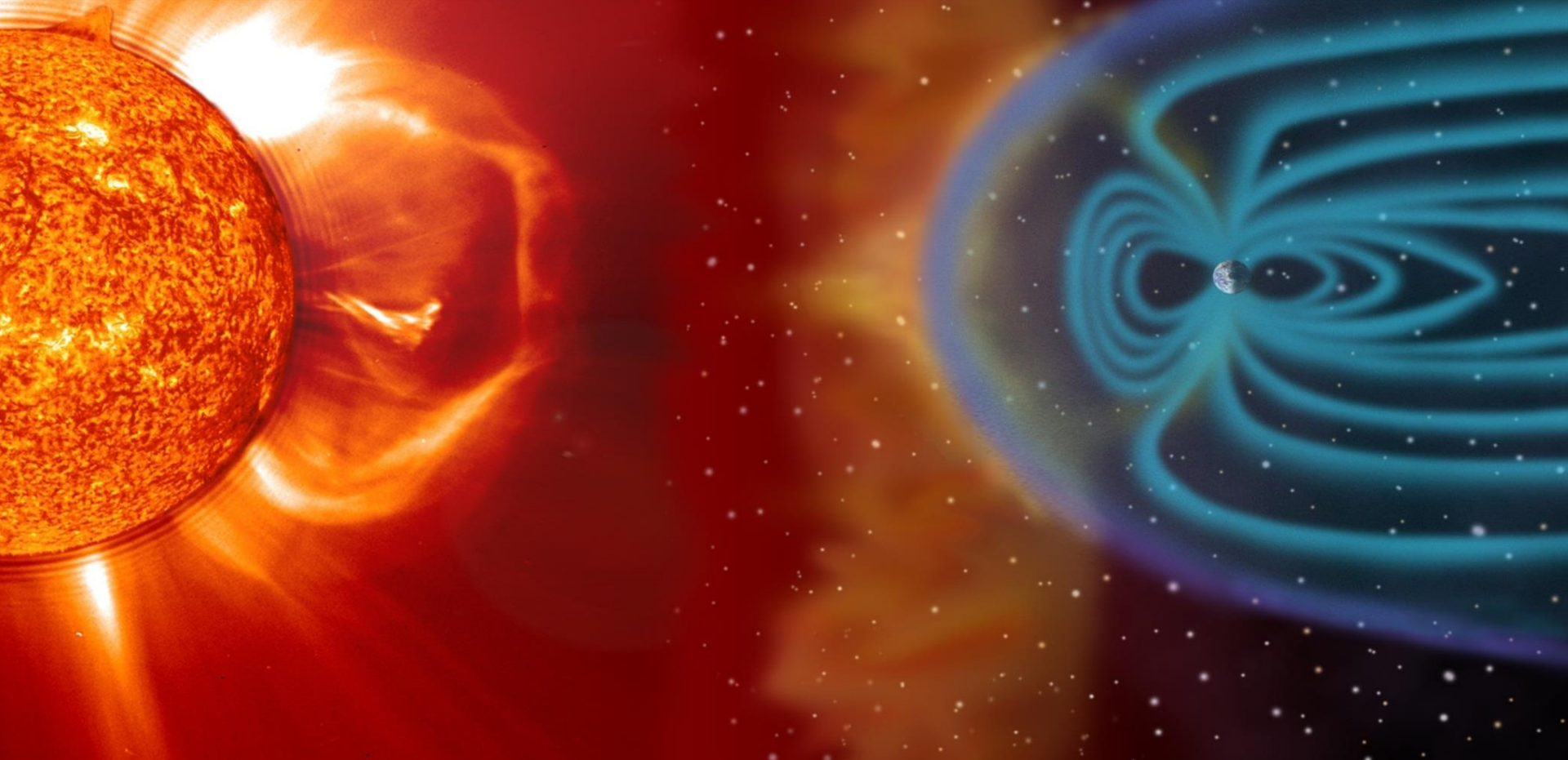


AWIPS II: R20 – O2R



Space Weather Workshop

Michelle Mainelli – NCEP Central Operations

April 23, 2012

Advanced Weather Interactive Processing System (AWIPS)

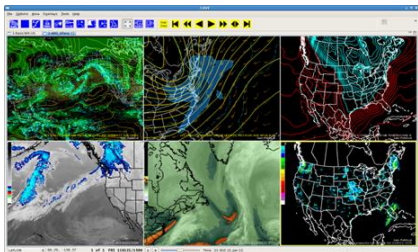
- Collection software, hardware, networks, and support services for a variety of users within NOAA and the NWS
- Allows for collaboration across multiple National Centers and Forecast Offices
- Creates a seamless mechanism for data display and manipulation, product creation, and dissemination



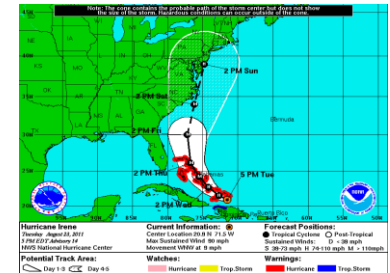
N-AWIPS



AWIPS

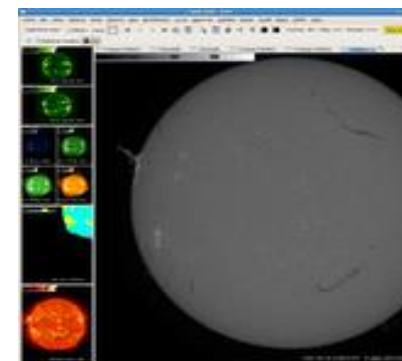
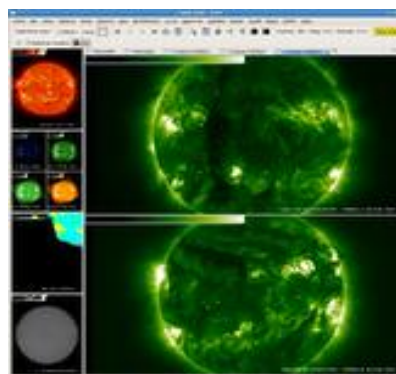
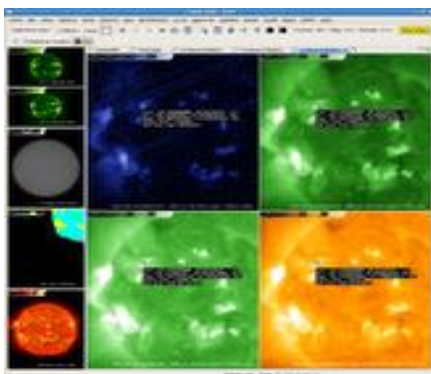


AWIPS II
Migrated
System



AWIPS II at SWPC

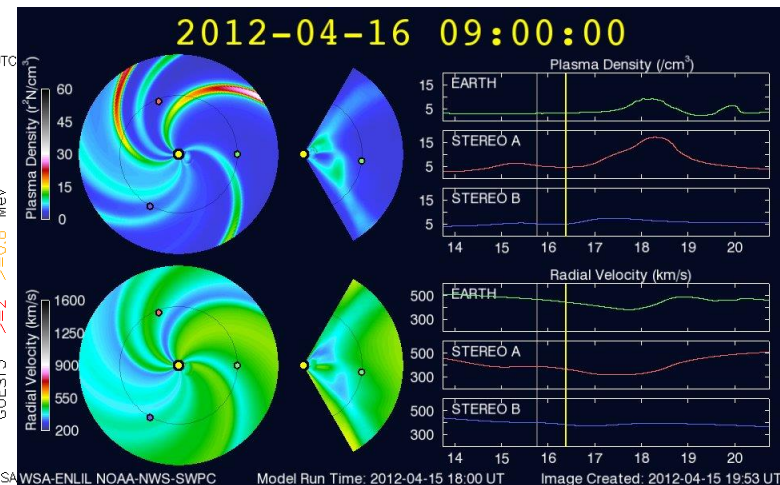
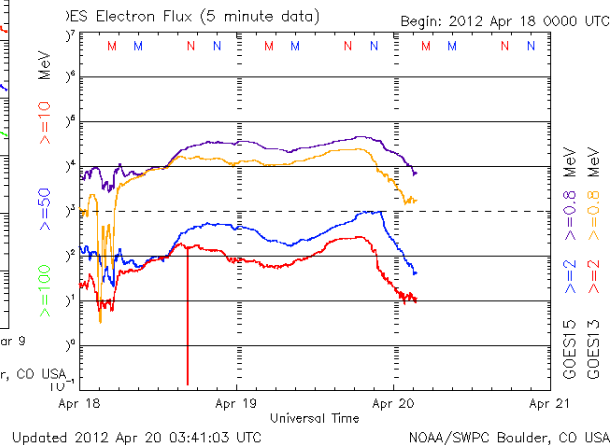
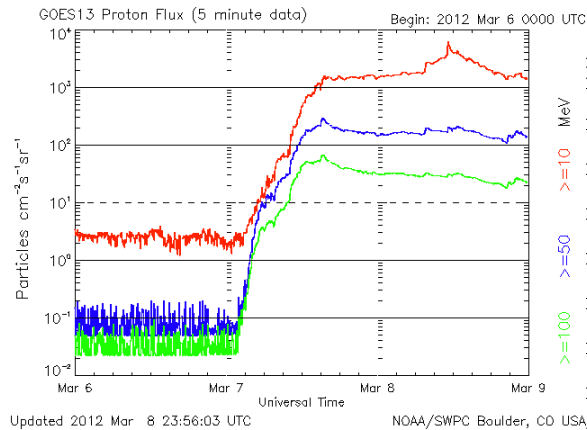
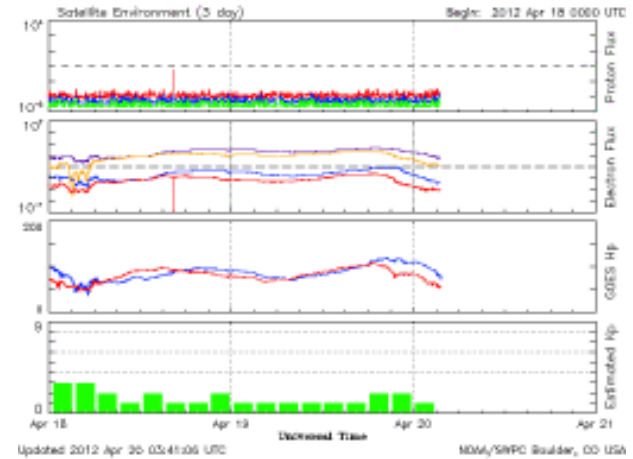
- Positioned to take advantage of 25+ years of software development
- Capitalize on an enterprise solution for data visualization and product generation
- Create efficiencies in application development and maintenance
- Ability to focus efforts on R2O activities
- Solar imagery has already been ported in a test environment

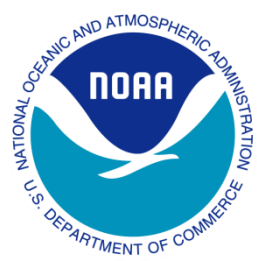


AWIPS II at SWPC: Next Steps

Migration of current display/forecast tools during FY12 and FY13

- SWPC high-frequency data decoder
- SWPC high-frequency time line / time series
- Enlil model
- Product Generation
- Enhanced web graphics depicting solar event impacts on Earth





AWIPS II for the Space Weather Community



- An exciting opportunity exists for the space weather research community
- Through agreements with Raytheon and UCAR/Unidata this software system will be made available to researchers
 - Allows access to the operational system forecasters use
 - Fosters more beneficial applied research activities
 - Improves collaboration between the research and operational community
 - Modern development and environment platform to enhance faster implementations
- Exploring space weather data delivery through Unidata as well



Partnerships & Collaboration

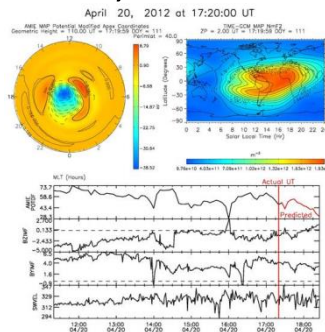
- Once fully deployed, AWIPS II will have open software policies for distribution
 - government vs. non-government version
- Since 2005, Raytheon has been NOAA's partner for the operations, maintenance and evolution of AWIPS
 - Provide software support for the private sector



- For over 15 years NCEP has partnered with Unidata to be a conduit for the NCEP software and data to the terrestrial weather research community
 - Unidata is a diverse community of over 250 institutions vested in the common goal of sharing data, and tools to access and visualize that data.

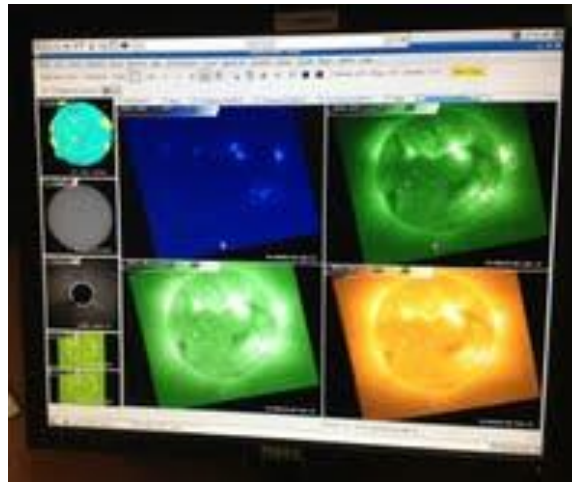


- In our current economic climate, AWIPS II provides the bridge between research and operations



Demonstrations of the Software

Today, Wednesday, and Thursday from
1-3pm during the poster session



AWIPS II is coming to SWPC and the opportunity exists to
extend this R2O/O2R capability to the
Space Weather Community!