NOAA GOES-R/JPSS Proving Ground Activities

Introduction

Science Advisory Committee Meeting

26 – 28 August, 2014

National Space Science and Technology Center, Huntsville, AL

SPoRT Proving Ground History

Pre-Proving Ground (i.e. NASA work)

- Existing partnership with NWS Southern Region
- Assisting NESDIS (GOES Aviation) and UAH (CI) with transition
- MODIS: mesoscale sat. anal.
  - Prep for S-NPP and GOES-R/JPSS
- NASA's LMA supporting LIS being used locally by WFO

As part of Proving Ground

- Asked by PG to participate
- Developed Pseudo-GLM
- Used MODIS (then VIIRS) to create Hybrid GEO/LEO imagery and RGB suite
- Interest by other NWS Regions (CONUS/OCONUS)
- Supported AWG products
- Supported both WFO and NCs
- New products: VIIRS DNB

Overview of SPoRT's Proving Ground Areas

1. Total Lightning
   i. pGLM and new networks, training (modules & visits), assessment report, transition to NCs and AWIPS II, inclusion of NCs
2. ABI-like imagery (Single/Multi-channel)
   i. Imagery to NCs/WFOs as proxy to ABI, including Hybrid GEO/LEO – delivery and feedback on utility
   ii. SEVIRI at NCs, Expand suite to include MODIS/VIIRS, CIRA Sounder Airmass transition, AWIPS II tools, training modules on applications, assessments
3. Support AWGs transition of proxy products
   i. NCs/WFOs transition, training assistance and feedback to developers
4. OCONUS activities
   i. Suite of products to Alaska/Pacific Region to meet specific needs, training modules, site visits, and assessments
5. Integration to User's Decision Support System
   i. AWIPS II via Experimental Products Development Team (Not discussed here)

NOAA PG – SPoRT Goals

- Working in core areas of Total Lightning, Single channel and RGB Imagery, AWG Transition Support, and OCONUS
- **Goal: Promote use of NOAA/NASA real-time data as valuable to present operations while demonstrating future GEO/LEO capabilities**
- *Sub-goal: Be leaders in transition of Total Lightning products and RGB imagery to prepare users for GOES-R and JPSS*
- *Sub-goal: Develop application-based training to complement foundational training/work by others in PG*
- *Sub-goal: Develop and test new display capabilities for PG products for efficient use in operations. (more in DSS Session)*

Session Outline

Session 3: GOES-R/JPSS Proving Ground Activities

Support of AWGs: GOES-R CI and QPE	(Anita Leroy)
Total Lightning	(Geoffrey Stano)
OCONUS Activities	(Matt Smith)
Future Proving Ground Activities	(Kevin Fuell)