

NWS Operations Proving Ground Update



Chad Gravelle

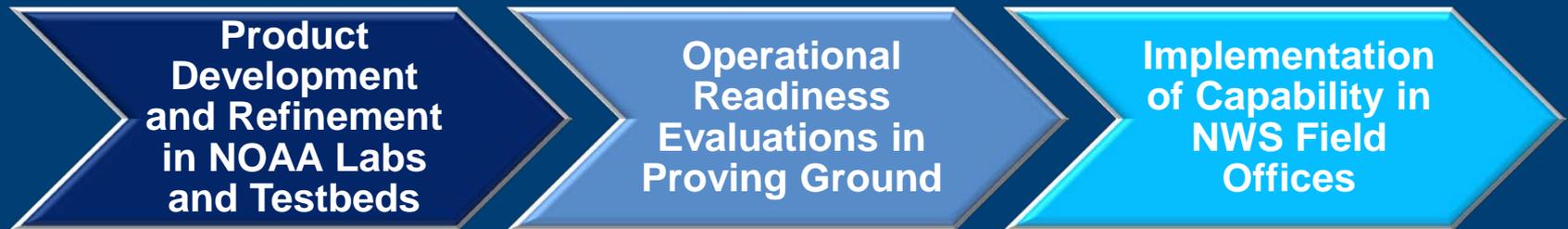
**OCONUS Meeting
20 June 2013**

Operations Proving Ground Vision and Mission

Vision...prepare today's National Weather Service forecaster to support tomorrow's Weather Ready Nation by building capacity for superior impact-based decision support services.

Mission...to advance the processes and skill sets needed to generate, deliver, and communicate weather information by evaluating end-to-end service delivery in a realistic operational setting.

One avenue to complete this mission...

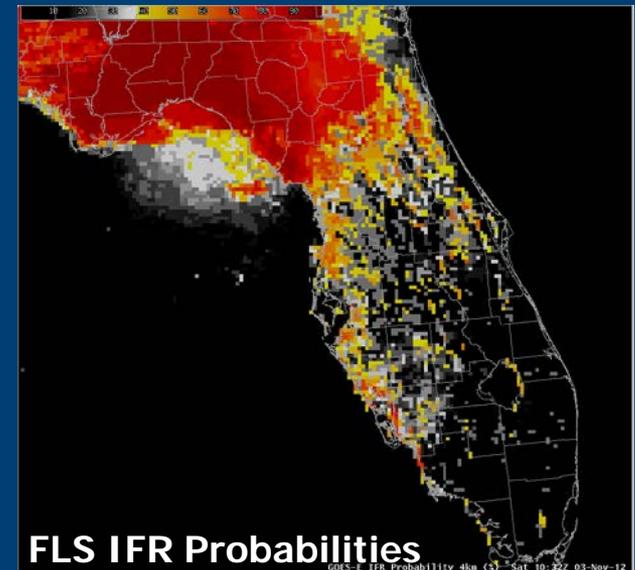


Operations Proving Ground – A Distinctive Niche

- **Services Arm of the OPG Mission:** to assist with initiatives specifically designed to enhance effective Decision Support Services to external partners.
- A “DSS Testbed”...emphasis on WCM and Emergency Response needs.



- **O2R-R20 Arm of the OPG Mission:** to validate operational readiness for promising capabilities emerging from NOAA testbeds, or from the field.
- A final step to earn NWS forecaster endorsement, ensuring work flow and other human factors considered prior to implementation.



Operations Proving Ground Accomplishments

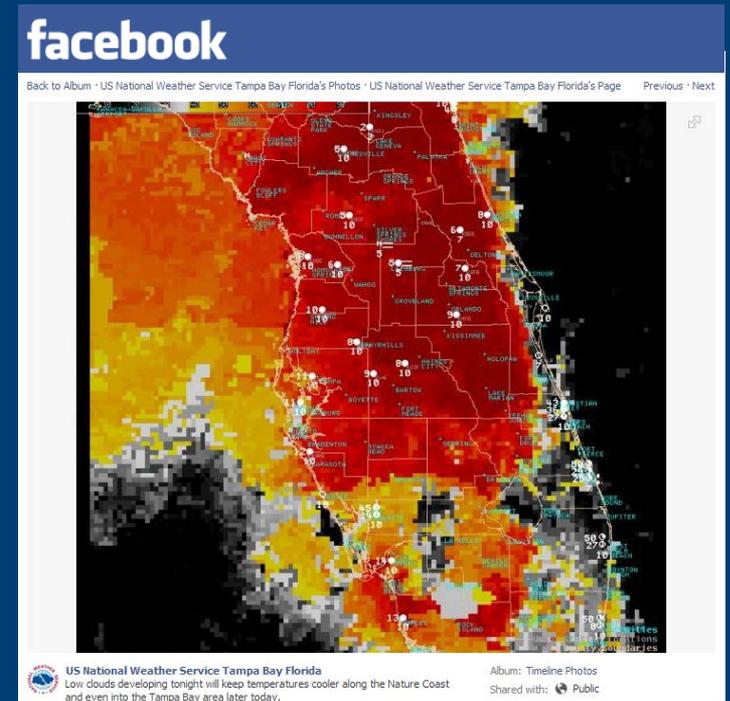
- **Support for CR Impact-Based Warning Demonstration**
- **Support for AWC Testbed Experiment**
- **GOES-R Fog/Low Stratus Evaluation**
- **GOES-R Convective Toolbox Evaluation (GOES-R CI and CTC)**
- **Decision Support Services Deployment Boot Camp**
- **Lead for ERS Professional Development Series**
- **Winter Hazard Message Simplification Experiment**
- **Pilot Training Workshop for FEMA Watch Standers**
- **Announcement of Opportunity for Operational Readiness Evaluations**

My Position – Operations Proving Ground Satellite Liaison

- NWS OPG Science Coordinator
- Participate in and provide science support for both satellite and non-satellite activities with the OPG.
- NWS Forecast Office (CONUS) GOES-R Satellite Liaison
- Coordinate and document GOES-R product evaluations with NWS Forecast Offices.
- Test and validate proposed products and decision aids with an emphasis on exploring the value of advanced satellite derived products for observing or predicting weather hazards (e.g., convection, ceiling, visibility, etc.).

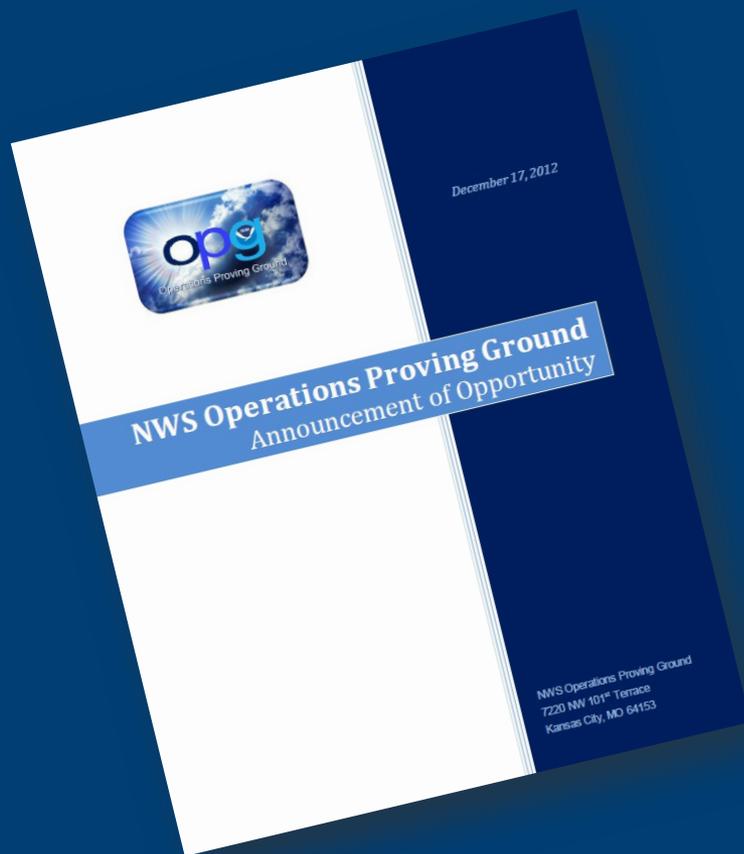
Operations Proving Ground and GOES-R Fog / Low Stratus

- Over the past year, 18 NWS Forecast Offices have or are currently providing formal feedback to the GOES-R Proving Ground.
- All NWS CONUS Regions are represented.
- Satisfied the NWS Tampa Bay Pilot Project objective to "Evaluate the GOES-R Fog Product in coordination with the GOES-R Proving Ground".
- Feedback has been gathered using...
 - Online Surveys
 - Area Forecast Discussions
 - Science Operations Officer
 - Facebook Posts
 - Informal Emails
- Current feedback (in real time) can be viewed on the GOES-R Proving Ground Google Site.



Operations Proving Ground and Operational Readiness Evaluations

- To be accepted for an ORE in the OPG, candidate capabilities must have been assessed in a developmental testbed environment (e.g., HWT, AWT, HMT).
- Five applications for participation in an Operational Readiness Evaluation were received in March 2013.
- Budget permitting, there will be at least two upcoming OREs:
 - A comparison evaluation on design and usability of EDD and SRH Emergency Response Tool.
 - Forecaster validation of the NASA SPoRT Total Lightning Tracking Tool for convective warning and forecasting operations.



What's Next for the Operations Proving Ground?

- **Continued GOES-R support and product evaluations**
- **Finalize facility set-up, system configuration (AWIPS 2 System in Aug)**
- **Fall ORE session, budget permitting**
- **Decision Support Services Boot Camp in Fall**
- **Assist social science validation and planning to improve winter hazard simplification messaging**
- **Support for Impact-Based Warning-2: Prototype Web Displays**
- **Build synergy with WRN Pilots and NOAA Test Beds (e.g., HWT/NSSL)**