

Proving Ground Operations Plan Proposal

(1) Project Title: GOES-R Proving Ground 2011 Spring Experiment

(2) Organization:

- a. NOAA's Storm Prediction Center and Hazardous Weather Testbed, Norman, OK

(3) Products to be demonstrated (list the GOES-R Products you would like to demonstrate as a GOES-R Proving Ground activity):

- a. Cloud and Moisture Imagery
- b. Lightning Detection (multiple products)
- c. Enhanced "V"/ Overshooting Top Detection
- d. Convective Initiation (SATCAST (AWG))
- e. Nearcasting Model (R3)
- f. NSSL - Weather Research and Forecasting (WRF) based Lightning Threat Forecast (R3)
- g. Statistical Hail Probability Product (GIMPAP)
- h. UWCI Convective Initiation (GIMPAP)

(4) Demonstration Project Summary:

- a. Purpose: Demonstrate and test GOES-R Proving Ground products within an operational framework while collaborating with broader warning/forecast community within other Spring Experiment entities.
- b. Scope: Day 1 product evaluation and training. Collaboration with developers on potential day 2 products.

(5) Participants (Centers) involved:

- a. Providers
 - i. CIMSS
 - ii. CIRA
 - iii. SPoRT
 - iv. NSSL
- b. Consumers
 - i. Storm Prediction Center
 - ii. Hydrometeorological Prediction Center Forecasters (precip desk)
 - iii. National Weather Service Forecasters

(6) Project schedule/duration (timeline):

- a. Begin: Nov. 2010 (planning)
- b. End: Aug. 2011 (evaluation/report)

(7) Project decision points and deliverables

- a. Proving Ground Operations Plan
- b. Mid-Term Evaluation Report

- c. Proving Ground Spring Experiment Final Report

(8) Responsibilities and Coordination

- a. Chris Siewert, OU-CIMMS
- b. Kristin Kuhlman, OU-CIMMS
- c. Steven Weiss, SPC
- d. Travis Smith, NSSL

(9) Budget and resource estimate

- a. Removed in this version