

Proving Ground Operations Plan Proposal

(1) Project Title: GOES-R Proving Ground 2011 WCONUS 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 (Tim Schmit/Dan Lindsey)
- b. Convective Initiation (John Walker/Justin Sieglaff)
- c. NDVI / NDVI Change (Peter Romanov/Bob Rabin)
- d. Fire/Hotspot Detection (Chris Schmidt)
- e. Surface Dryness / Dryness Anomaly (Bob Rabin)
- f. Nearcasting Model (Ralph Petersen)
- g. Sounder DPI (PW, LI, CAPE) (Tim Schmit)
- h. Blended TPW (Stan Kidder)
- i. NSSL - Weather Research and Forecasting (WRF) based Lightning Threat Forecast (Bill McCaul)

(4) Demonstration Project Summary:

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

(5) Participants (Centers) involved:

- a. Providers
 - i. CIMSS
 1. Cloud and Moisture Imagery
 2. Convective Initiation
 3. NDVI / NDVI Change
 4. Fire / Hotspot Detection
 5. Surface Dryness / Dryness Anomaly
 6. Nearcasting Model
 7. Sounder DPI
 - ii. CIRA
 1. Cloud and Moisture Imagery
 2. Blended TPW
 - iii. SPoRT
 1. NSSL – Weather Research and Forecasting (WRF) based Lightning Threat Forecast
 - iv. NSSL

1. Cloud and Moisture Imagery
2. NSSL – Weather Research and Forecasting (WRF) based Lightning Threat Forecast

- b. Consumers
 - i. Storm Prediction Center
 - ii. National Weather Service

(6) Project schedule/duration (timeline):

- a. Begin: July 2011 (planning)
- b. End: Sept. 2011 (evaluation/report)

(7) Project decision points and deliverables

- a. Proving Ground Operations Plan
- b. Proving Ground Final Report

(8) Responsibilities and Coordination

- a. Chris Siewert, OU-CIMMS
- b. Jimmy Correia, OU-CIMMS
- c. Phillip Bothwell, SPC
- d. Bob Rabin, UW-CIMSS/NSSL

(9) Budget and resource estimate

- a. Removed in this version.