



# GOES-R Proving Ground Activities 2010 Activities Overview

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- Hazardous Weather Testbed Spring Experiment
- High Latitude Testbed and Alaska Experiment
- National Hurricane Center Hurricane Season Experiment
- Joint Aviation Weather Experiment



# Hazardous Weather Testbed Spring Experiment



- Dates
  - 17 MAY – 18 JUN
- Focus
  - Convection
- GOES-R Products
  - Lightning Detection
  - Cloud and Moisture Imagery
  - Enhanced “V”/Overshooting Top Detection
  - Convective Initiation
- R3/Decision Aids/Other
  - Statistical Hail Probability
  - UW Convective Initiation
  - WES Cases
- Participants
  - CIRA
  - CIMSS
  - SPoRT
  - NSSL
  - SPC



# High Latitude Testbed and Alaska Experiment



- Dates
  - 1 SEP – 30 NOV
- Focus
  - Snow/Cloud Discrimination
- GOES-R Products
  - Volcanic Ash: Detection & Height
  - Cloud Phase
  - Cloud Snow Discrimination
  - Low Cloud and Fog
  - SO2 Detection
- R3/Decision Aids/Other
- Participants
  - CIMSS
  - GINA (UAF)
  - WFOs
  - RFC
  - AAWU



# National Hurricane Center Hurricane Season Experiment



- Dates
  - 1 AUG – 30 NOV
- Focus
  - Tropical Weather
- GOES-R Products
  - Hurricane Intensity
  - Super Rapid Scan Imagery
- R3/Decision Aids/Other
  - RGB air mass product
  - RGB aerosol/dust Product
  - Saharan air layer product
  - Rapid intensity index
- Participants
  - CIMSS
  - CIRA
  - NHC



# Joint Aviation Weather Experiment



- Dates
  - 1 AUG – 30 JAN (2011)
- Focus
  - Aviation Weather
- GOES-R Products
  - Volcanic Ash: Detection & Height
  - Cloud Top Height (AK only)
  - Lightning Detection (AWC only)
  - Low Cloud and Fog
  - Aircraft Icing Threat
  - SO<sub>2</sub>
- R3/Decision Aids/Other
  - UW Convective Initiation
- Participants
  - CIMSS
  - CIRA
  - SPoRT
  - AAWU
  - AWC
  - NWS CONUS Regional HQ (TBD)



# Process for Successful Demonstration/Experiment



1. Hold a GOES-R PG Workshop (like the one we're at today) to communicate/identify satellite data needs
2. Develop and Submit to GPO a Demonstration Proposal (GPO Approval)
  1. Identifies the organization, GOES-R Products of interest, participants (providers/consumers), schedule, decision points and deliverables, POCs, and resources/budget info
3. Meet with participants to coordinate plan and iron out details
4. Develop and Submit to GPO a Proving Ground Operations Plan (GPO Approval)
  1. Provides additional details about the Demonstration/Experiment
  2. Includes algorithm descriptions, demonstration implementation plans, identifies roles and responsibilities, provides schedule, training plans, and identifies other activities of interest.
5. Hold a series of coordination telecons to insure experiment is on schedule
6. Execute Experiment
7. Provide a midterm report to GPO
8. Provide a final report to GPO at experiment end



# Definition of Success

Since Bill Sjoberg is bound to ask, “How does the PG Demonstration/Experiment define success?” ... 😊

- Success is:
  - Conducting a thorough training and demonstration of available GOES-R products and decision aids followed by thorough evaluation providing valuable feedback to the GOES-R Program.
- Ultimate Success is:
  - Increase use of Satellite data within the Weather Service – Regional Centers, and Weather Forecast Offices.