

# Air Quality Proving Ground

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2012 Progress



# Air Quality Proving Ground

- Provide the national air quality community with a preview of GOES-R Advanced Baseline Imager aerosol products and train users for air quality forecasting, surveillance and compliance analysis
- Users: NOAA, EPA, State and Local agencies (188 nationally)
- Proxy ABI products:
  - AOD (hourly and composites)
  - AOD-derived AQI values
  - Synthetic natural color (RGB)
  - Aerosol type

# Progress

- User community of 39 representatives of national and state agencies has been formed (5 power users as advisors)
- Two real-time demonstration projects have been conducted, the last in June-August 2011
- Real-time simulated ABI products were produced by the team and spooled out hourly in the demonstration at <http://www.star.nesdis.noaa.gov/smcd/spb/aq/aqpg/>
- January 2012 workshop with the User Group provided feedback to the ABI team about the realism of the project (agenda/report on website: <http://alg.umbc.edu/aqpg/>)
- Two papers in preparation:
  - Huff et al., 2012: Developing a Proving Ground for GOES-R Aerosol Products (journal TBD)
  - Hoff et al., 2012: Development of Synthetic GOES-R ABI Aerosol Products, J. Atmos. Oceanic Technol. (in submission)

## Additional AQPG 2012 Activities

- Evaluating [AWIPS-II](#) as a delivery system for ABI aerosol products to the air quality community
- Developing synthetic ABI near-real-time capability at STAR for Fall 2012
- [2<sup>nd</sup> “Day in the Life” Experiment in September 2012](#)
- [3<sup>rd</sup> annual AQPG workshop](#) at UMBC in October 2012
- Developing [on-line satellite training modules](#)
- Trying to establish synergy between GOES-R and Suomi NPP AQPG activities by collaborating with NWS Alaska
- [Questions: Contact R. M. Hoff \(hoff@umbc.edu\)](#)