



SATELLITE AIR QUALITY PROVING GROUND

Amy Huff

Shobha Kondragunta

Ray Hoff

AGU/AMS Presentations

- Hoff, R. M., A. K. Huff, S. Kondragunta, H. Zhang, P. Ciren, C. Xu NOAA Satellite Air Quality Proving Ground: Providing Near-Real Guidance to Forecasters on Dust and Haze Events using Suomi-NPP/VIIRS and GOES-R/ABI Aerosol Products, Paper IN13C-06, American Geophysical Union Annual Meeting, San Francisco, CA, December 9-13, 2013.
- Amy K. Huff, Pennsylvania State University, University Park, PA; and S. Kondragunta, H. Zhang, P. Ciren, C. Xu, and R. M. Hoff The NOAA Satellite Air Quality Proving Ground: Enhancing the Air Quality Community's Ability to Forecast and Analyze Smoke, Dust, and Haze Events using Suomi-NPP/VIIRS and GOES-R/ABI Aerosol Products, AMS Annual Meeting
- Raymond Hoff, University of Maryland, Baltimore, MD; and A. K. Huff and S. Kondragunta 2014 The Response to Fires and Dust Storms in the Exo-urban Environment in the GOES-R Era, AMS Annual Meeting

AGU NOAA Booth Presentations

The GOES-R Air Quality Proving Ground: Preparing the Air Quality Community for the Next Generation of NOAA Geostationary Satellites

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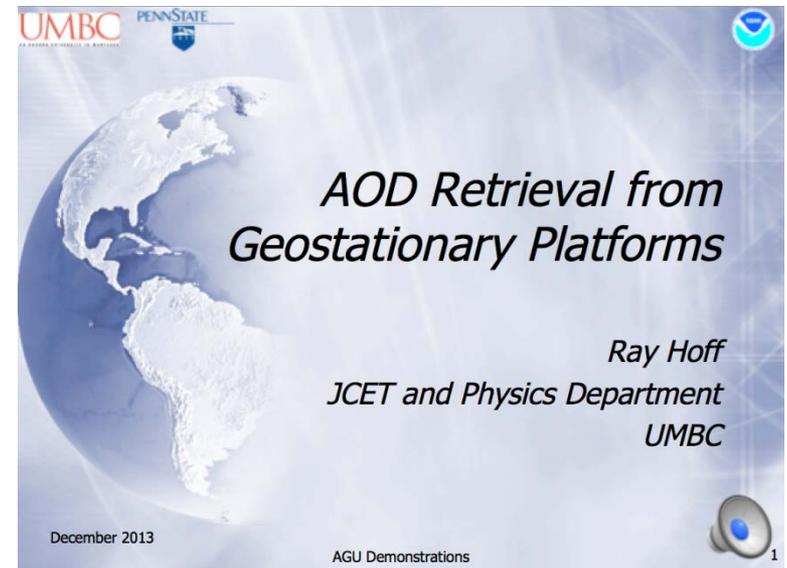
UMBC
UNIVERSITY OF MARYLAND
SYSTEM OF COLLEGE



Battelle
The Business of Innovation

12 minutes

23 minutes



UMBC PENNSTATE

AOD Retrieval from Geostationary Platforms

Ray Hoff
JCET and Physics Department
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December 2013

AGU Demonstrations

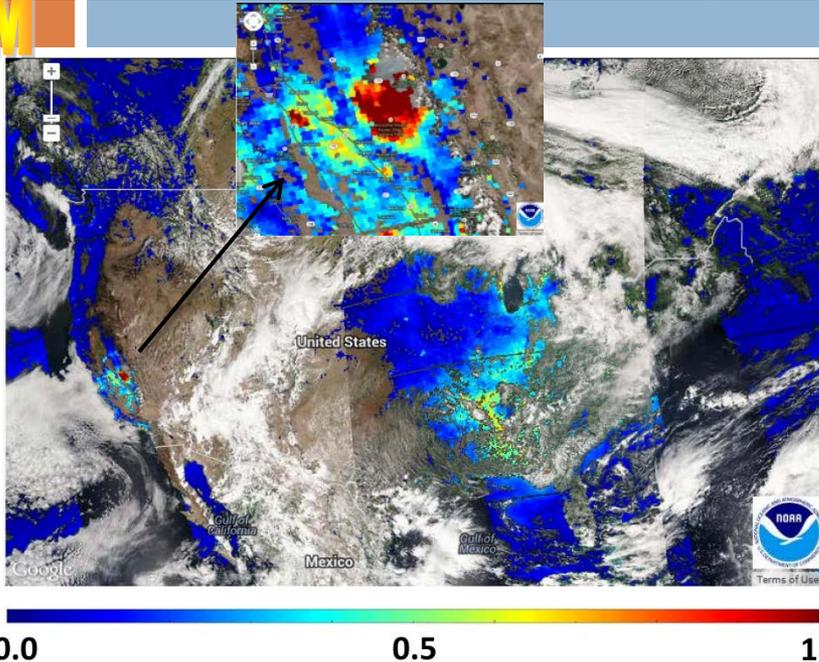
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The slide features a central image of Earth from space, showing the Americas. Logos for UMBC, Penn State, NOAA, and a speaker icon are visible. The text is arranged in a clean, professional layout.

AMS Booth Presentations

- We will try again to show the videos at the NOAA booth at AMS
- We will offer time to do a Science on a Sphere lecture on VIIRS AOT animations
- Comments are welcome on the two YouTube Videos:
 - AOD Retrieval from Geostationary Platforms
<http://youtu.be/k17IYMCcHvY>
 - The GOES-R Series of Satellites
<http://youtu.be/vuoDpVafZAA>

Suomi NPP VIIRS Aerosol Science and User Workshop



Status of VIIRS aerosol products provided to **science** and **operational** users

Users requested reprocessing capabilities, repackaging of data to meet data assimilation needs, and distribute tools developed by STAR

Figure shows aerosol optical thickness for September 9, 2013. High values are due to smoke from Rim fire in California.

- STAR held a two-day Suomi NPP aerosol science and operational user workshop on November 21-22, 2013 that was attended by 65 participants from NASA, NWS, NRL, EPA, state and local air quality forecasters, and different universities.
- Goal of the workshop was to present to the **science** and **operational** users the status of VIIRS aerosol products and facilitate the operational evaluation.
- Conducted hands-on case study analysis of VIIRS aerosol products and did live demos of various visualization tools developed by STAR.

Workshop organized by STAR (Kondragunta), PSU (Huff), and UMBC (Remer and Hoff)

Significance: supports NOAA's weather and water mission goal

Sponsored by JPSS