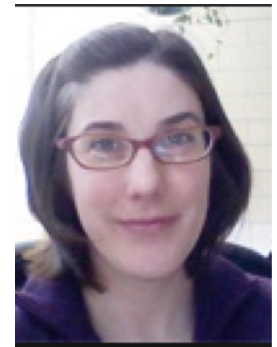
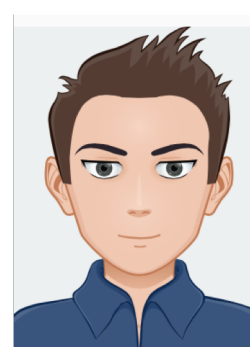


# *Satellite Data for Health and Air Quality Management*

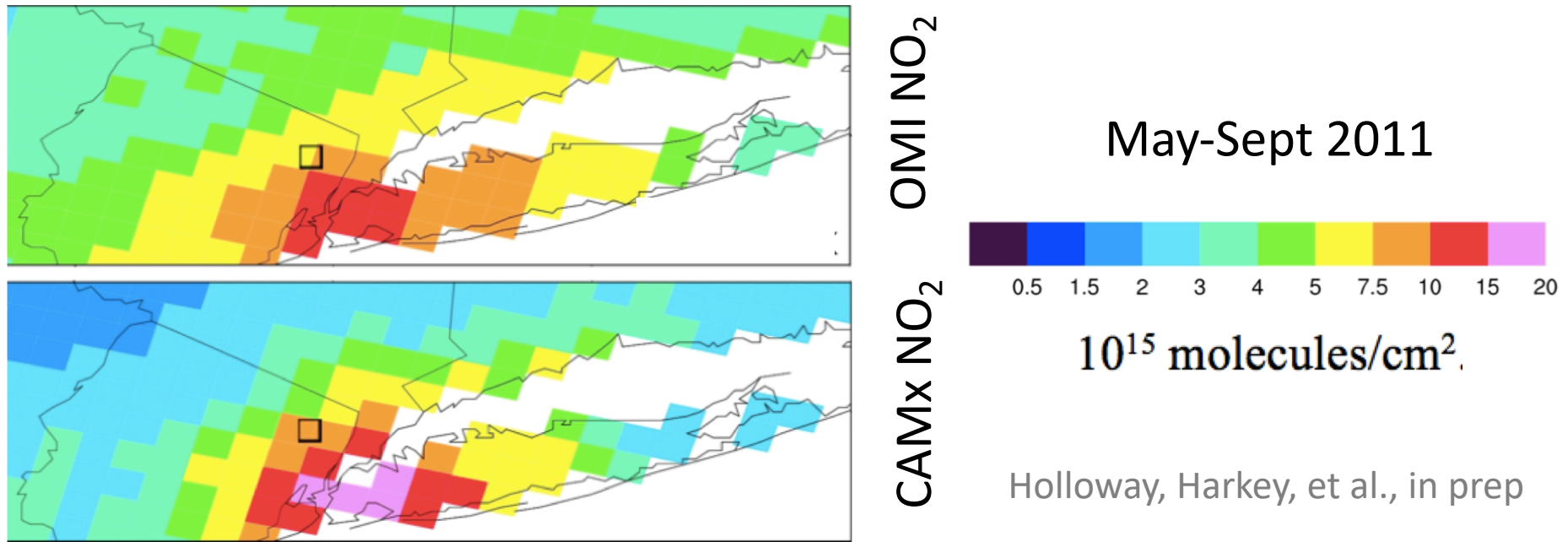
Tracey Holloway

Nelson Institute for Environmental Studies, UW-Madison  
Lead, NASA Health and Air Quality Applied Sciences Team  
University of Wisconsin—Madison



# HAQAST Goals

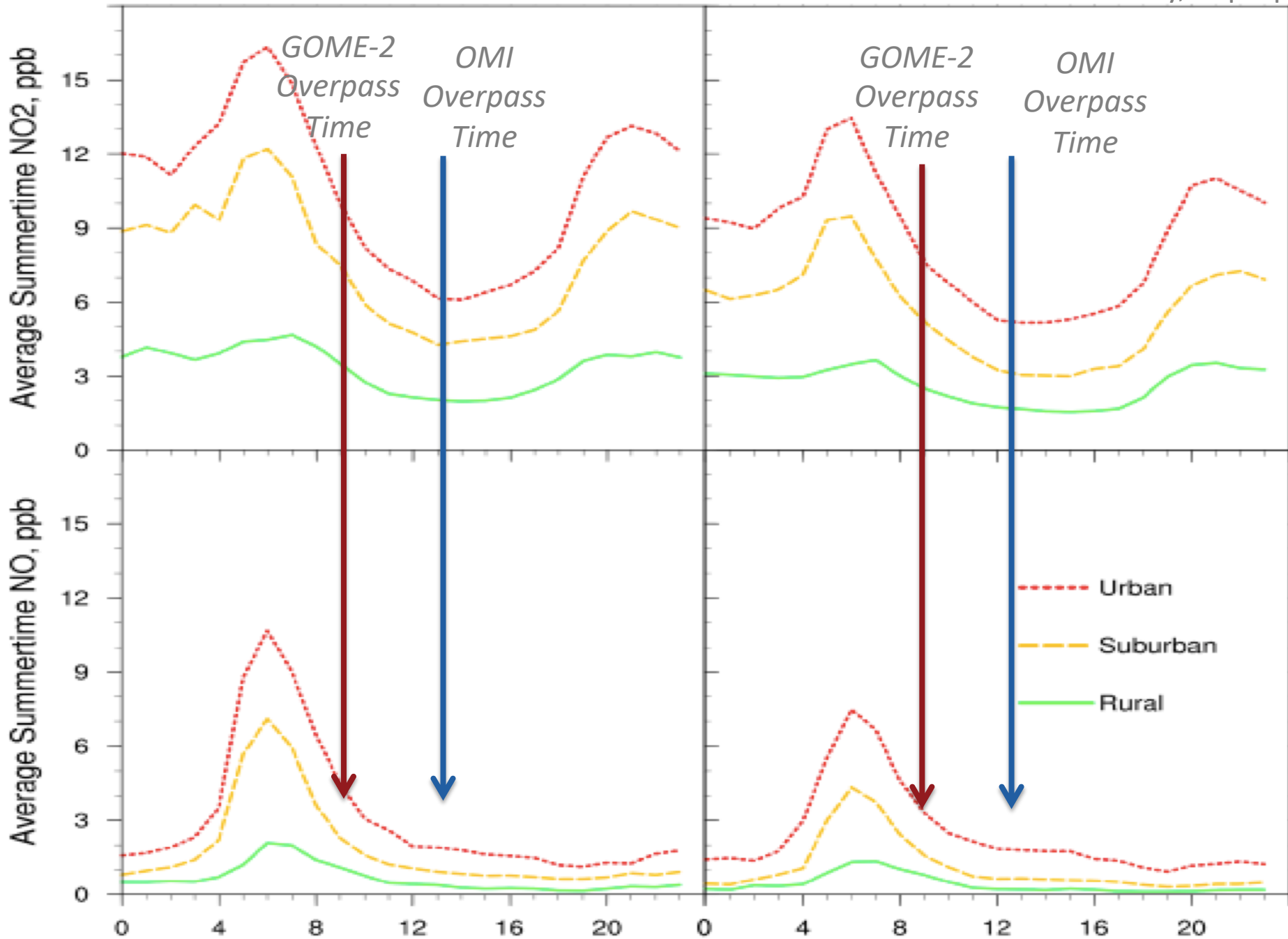
- 1) Evaluation of satellite data products as air quality and health indicators; and
- 2) Integration of satellite data into decision frameworks for air quality and health.



2007

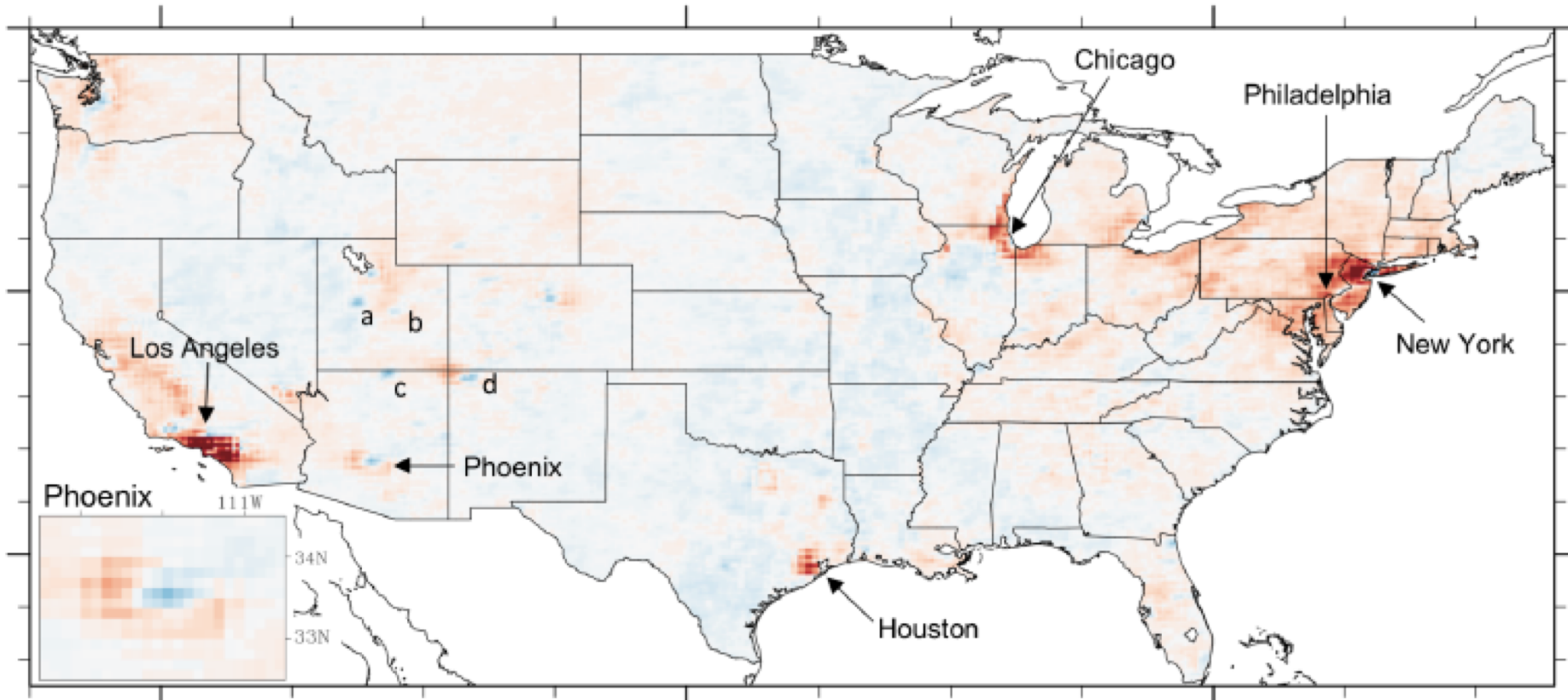
2011

Penn and Holloway, in prep



# Morning – Midday NO<sub>2</sub> Columns

Difference GOME2 - OMI NO<sub>2</sub>, Summer 2007



NO<sub>2</sub> Column Density ( $10^{15}$  molec./cm<sup>2</sup>)

Higher  
Midday

-5

-2.5

0

2.5

5

Higher  
Morning

twitter



Twitter

@NASA\_HAQAST



Upcoming Work:

1. Satellite-derived formaldehyde to support the National Air Toxics Assessment
2. Tools to support air quality model evaluation with satellites
3. OMI NO<sub>2</sub> to assess NO<sub>x</sub> emissions

