



Air Pollutant Deposition Modeling in the Pacific Northwest

Pierre Wong, Joe Vaughan, and Brian Lamb

Laboratory of Atmospheric Research

Dept of Civil & Environmental Engineering

Washington State University

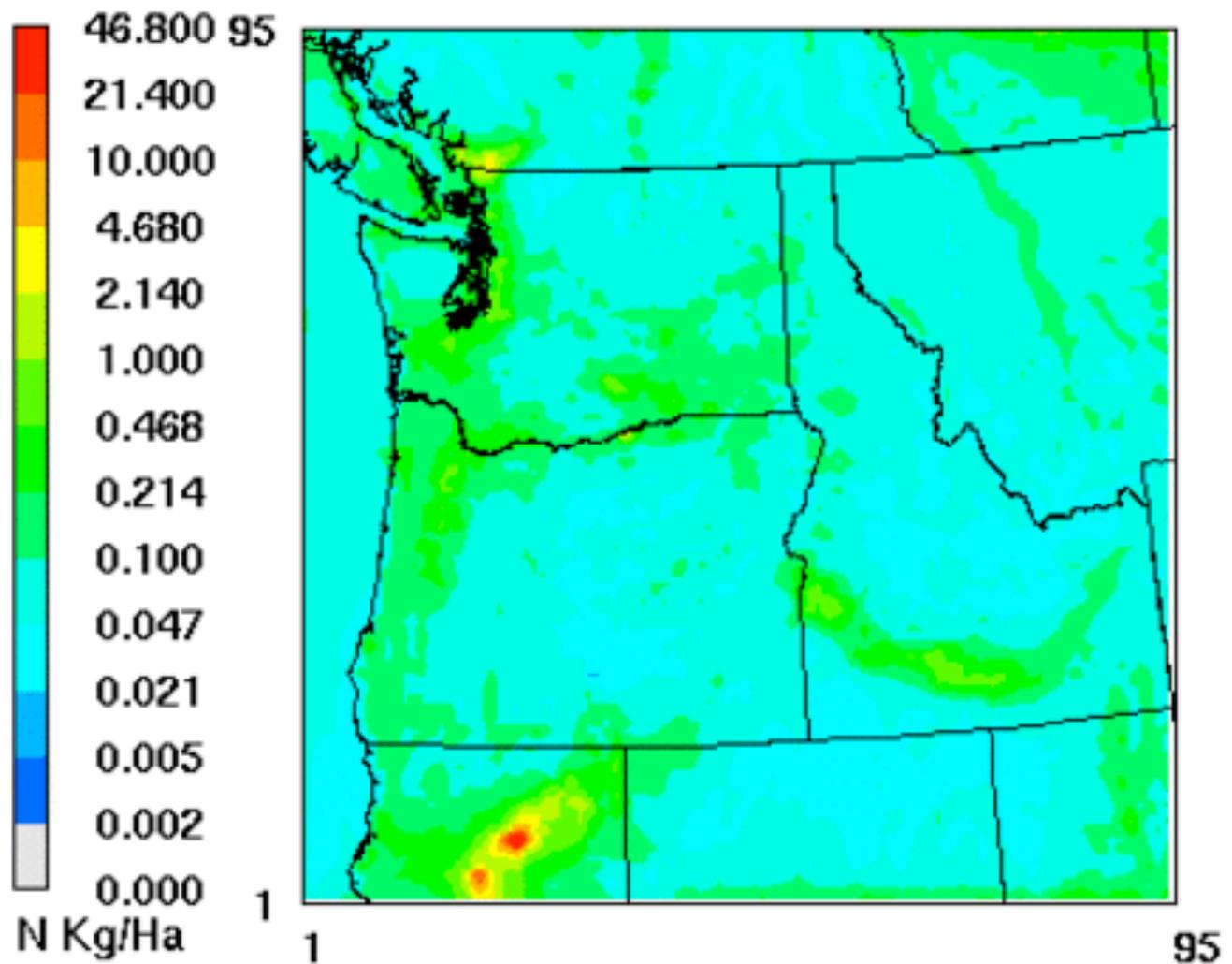
(Due to a technical problem, this update was omitted from our session talk 1-2 on AIRPACT updates. JKV)

Processing CMAQ results to Calculate Summary Products

- Monthly totals for N, S and Hg from:
 - Dry Deposition
 - Wet1 Deposition from non-convective precip.
 - Wet2 Deposition from convective precip.
- Monthly Precipitation
- Site-cell specific extractions for comparison with ‘resin tube’ data of Linda Geiser and Mark Fenn for arbitrary periods in 2007 and 2008.

Total Nitrogen

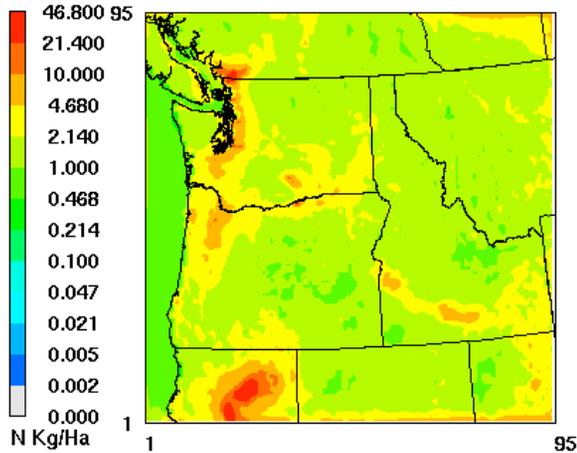
Dry_Deposition



January 1, 2009 1:00:00 (PST)
Min= 0.019 at (32,25), Max= 91.400 at (24,7)

2009Annual

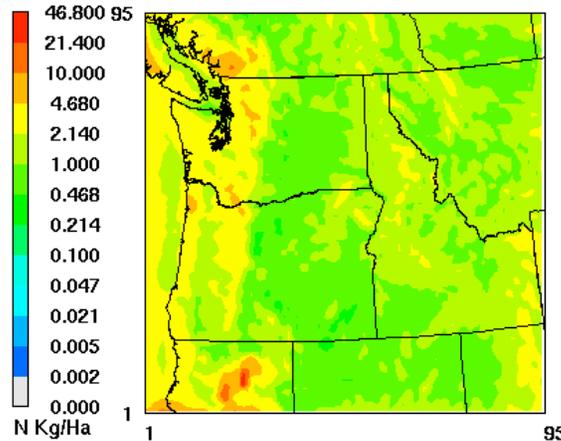
Dry Deposition
Nitrogen



January -635,0 16:00:00 (PST)
Min= 0.298 at (8,18), Max= 692.246 at (24,7)

2009Annual

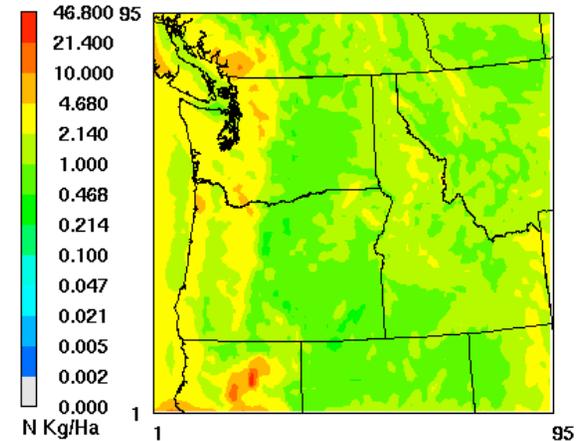
Wet_Deposition (Non-convective_rain)
Nitrogen



January -635,0 16:00:00 (PST)
Min= 0.325 at (44,17), Max= 39.732 at (24,7)

2009Annual

Wet_Deposition (Convective_rain)
Nitrogen

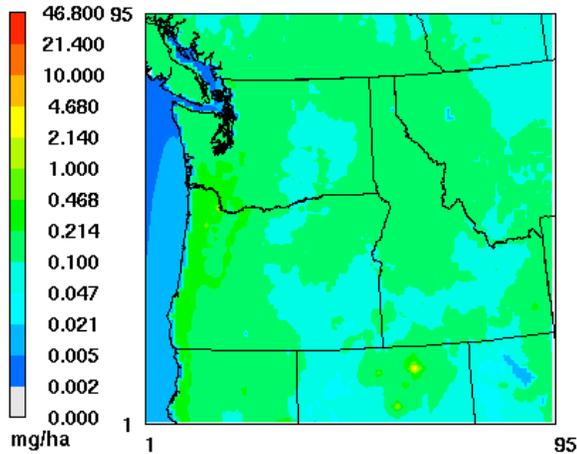


January -635,0 16:00:00 (PST)
Min= 0.325 at (44,17), Max= 39.732 at (24,7)

2009 Annual Sum N Deposition

2009Annual

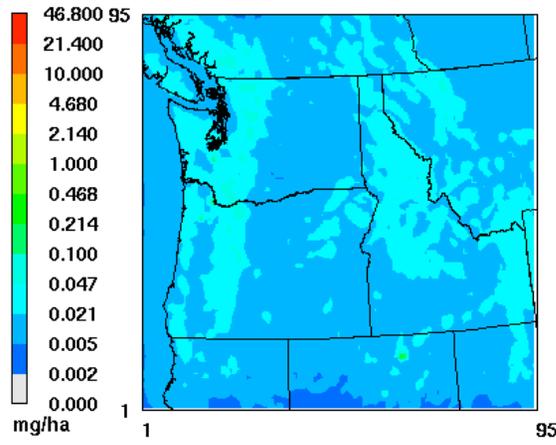
Dry Deposition
Mercury



January -635,0 16:00:00 (PST)
Min= 0.002 at (1,83), Max= 4.182 at (63,13)

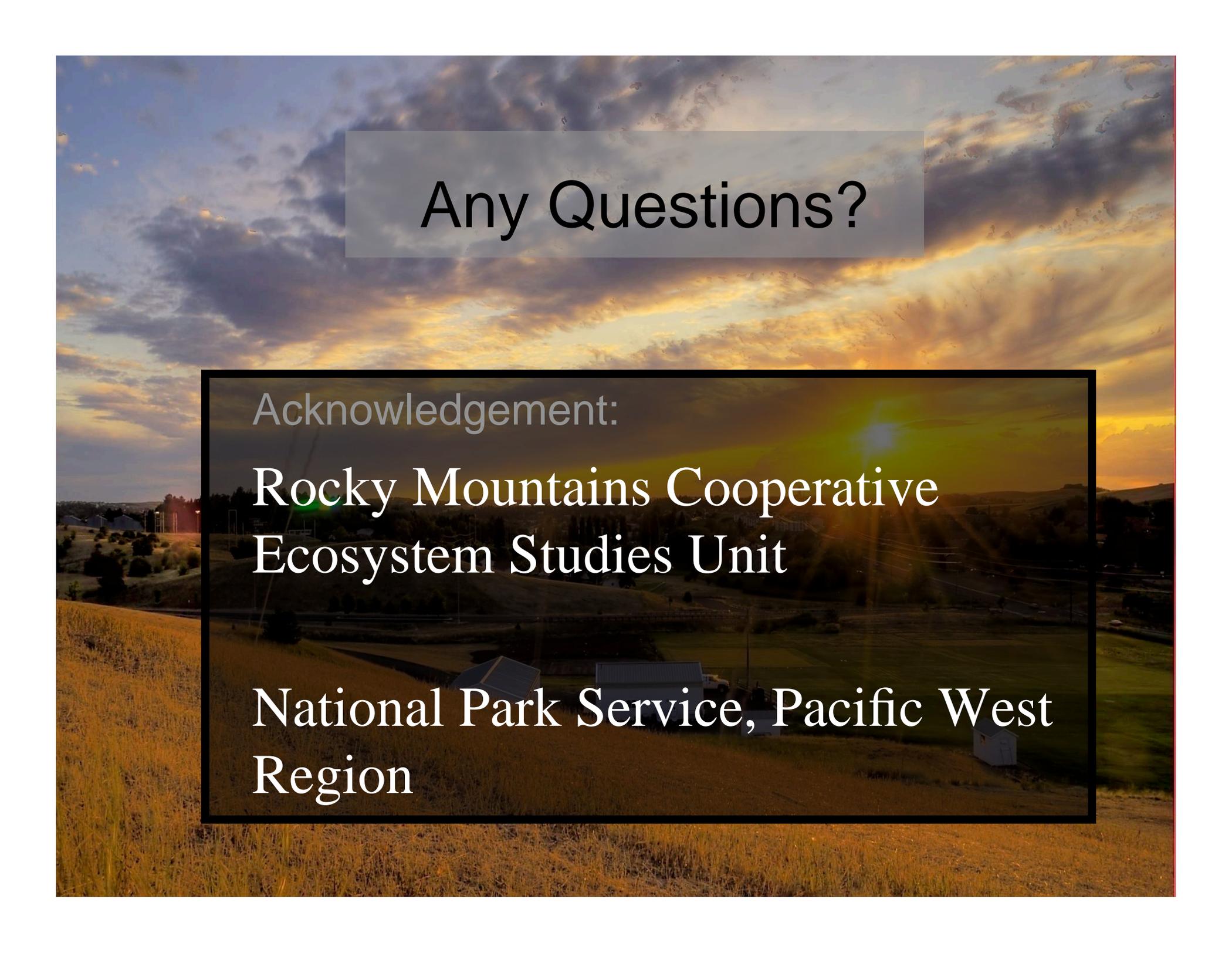
2009Annual

Wet Deposition (Non-convective_rain)
Mercury



January -635,0 16:00:00 (PST)
Min= 0.002 at (46,1), Max= 0.289 at (63,13)

2009 Annual Sum Hg Deposition



Any Questions?

Acknowledgement:

Rocky Mountains Cooperative
Ecosystem Studies Unit

National Park Service, Pacific West
Region