National Park Service



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Vision and Guiding Principles for National Air Program

Chris Shaver National Park Service Air Resources Division May 14, 2009

Overview of Presentation

NATIONAL PARK SARK

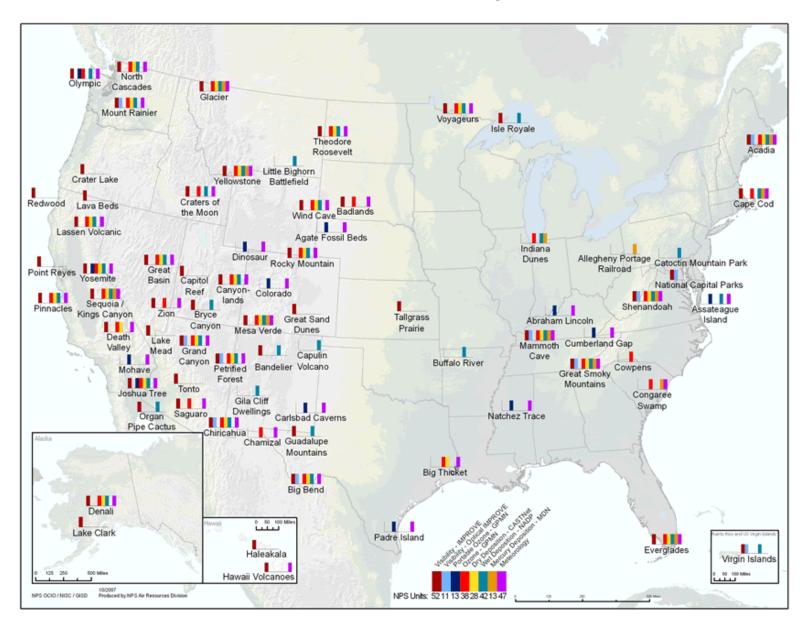
- General observation
- Basis for perspective
- What's a good start, but vague or needs more attention
- What's missing
- Parting shots

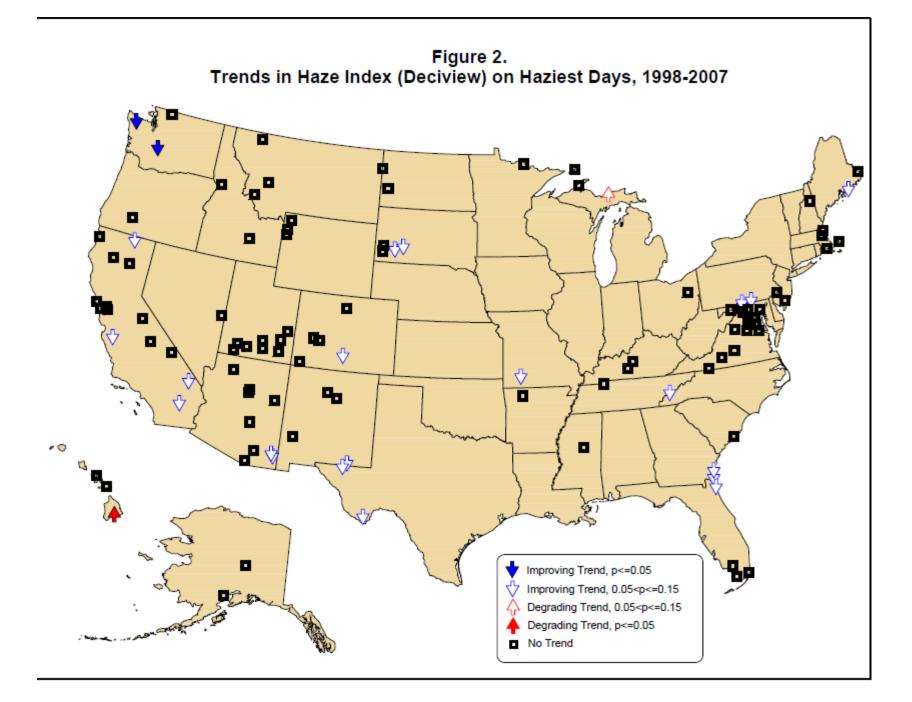
General Kudos

- Vision on target
- Peripheral vision well-focused
 - Move toward integrated, multi-pollutant approach
 - Recognition of climate change overlay
- Guiding principles broad enough to encompass issues and strategies
- Surprising amount of detail given diverse interests represented in CAAAC
- Sticky and complex topics fairly vague



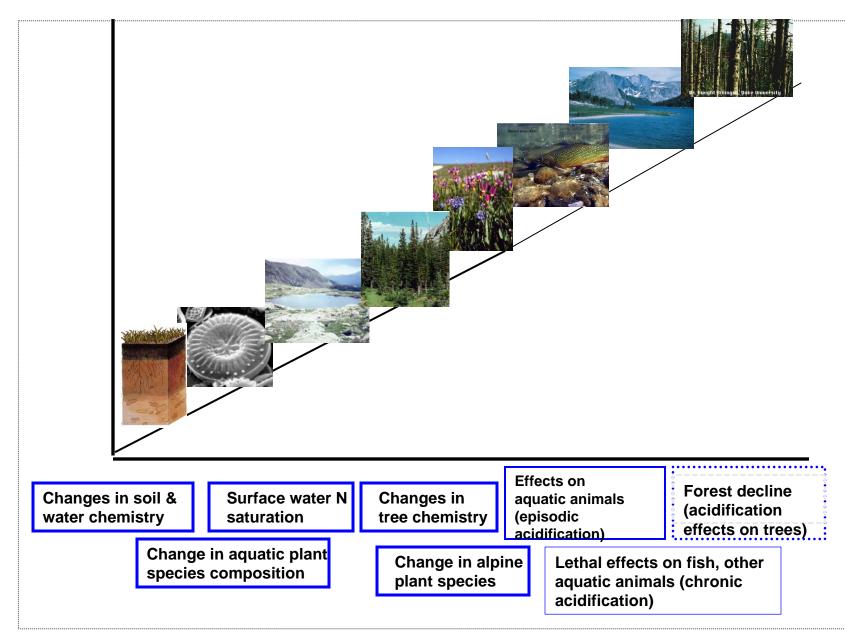
NPS Perspective: Non-Urban Monitoring Network

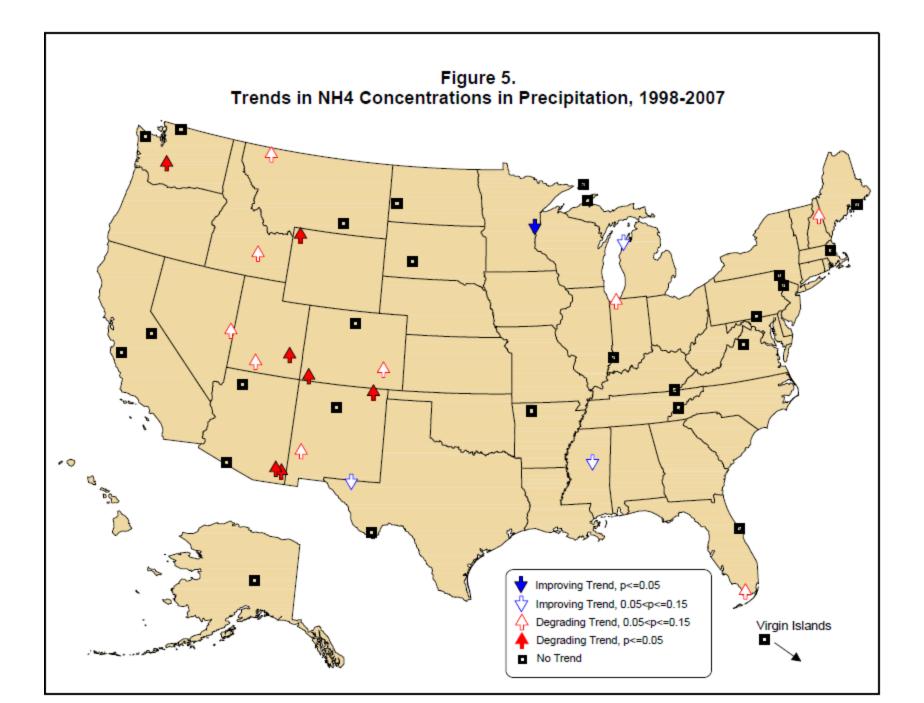




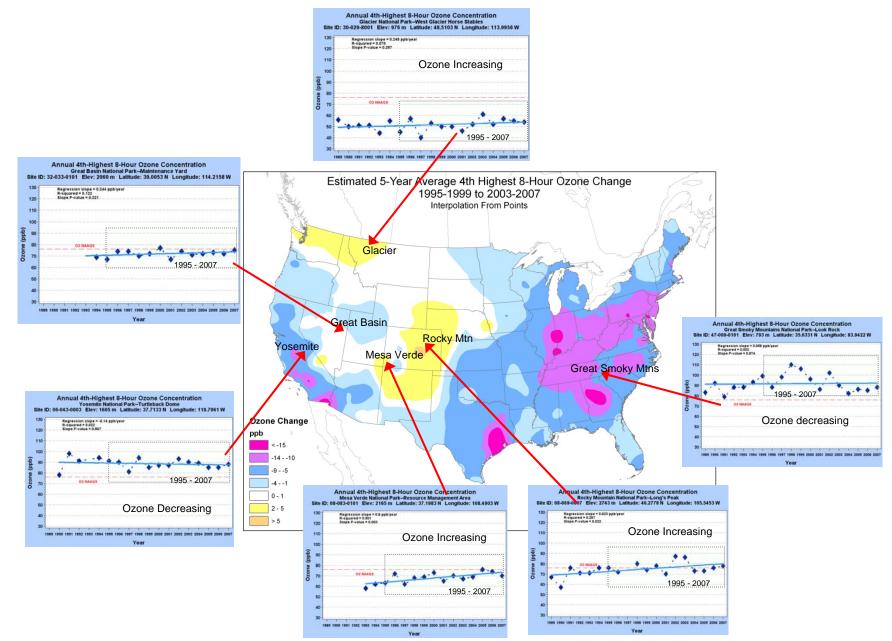


Continuum of Ecological Impacts from Air Pollution



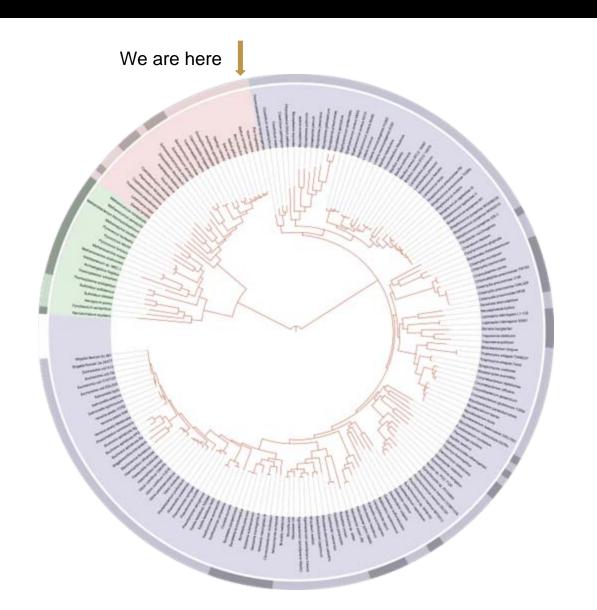


Comparison of Ozone Trend Approaches at Selected Locations



Our Place on the Planet





Goals, results & accountability

- ✓ Need for goals linked to ecological impacts
- ✓ Greater collaboration in planning & implementation



- Performance measures, accountability in protecting clean(er) air, including ecological health
- Understand and embrace connection between people, ecological health and ecosystem services

Appropriate tools, including innovation





- Technology for source categories – nationally
- ✓ Multi-pollutant concept
- ✓ Pollution prevention



- Multi-pollutant implementation
- ➢ Watch out for multi-media impacts

Conduct & use research



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✓ Emissions, monitoring and research all important, but



- Don't neglect
 - Emerging pollutants (NH4) and multi-stressor effects
 - Predictive needs
 - Technological & fuel innovations
 - Characterization of economic and ecosystem service benefits

Build capacity & partnerships





- ✓ It takes more than EPA and States
- ✓ Money, people, guidance
- ✓ Recognition that others may be better positioned to lead



"Improved understanding" should be coupled with responsiveness to science, incorporation into planning & accountability metrics

Public education & involvement





 ✓ Access to public-friendly info and action-oriented messages



Emphasize multi-media benefits of pollution control and prevention and behavior adjustments

What About...

- Geographic scale of air quality problem
 - Regional, interstate, national and global
 - Clarify roles and responsibilities
 - Institutional mechanisms (& support for them)
- NAAQS dilemna
 - Science vs practicality, honesty vs hope of compliance
 - How to ensure accountability and diligence/ push the envelope without penalizing failure to accomplish impossible,



Consider multi-media connections

- Air disperses, transforms and deposits pollution to:
 - Water (deposition)
 - Wildlife (bioaccumulation)
 - Soil (nutrient loading, leaching)
- Control strategies to reduce risk in one media may increase risk in another (e.g., waste management, renewable energy)
- Connections between programs within EPA and in States and Tribes to avoid redundant, counterproductive, ill-informed actions
- Optimization requires coordination and dialogue dialogue needed

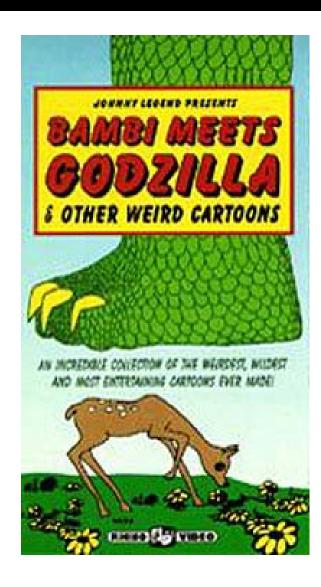
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Climate Change Connection





Links and Symbosis

- Need for resiliency
 - Criteria pollutant control programs improve health
- Some criteria pollutants = GHGs, others interact with GHGs
- Synergistic and/or confounding impacts
 - Multi-media, multi-pollutant
 - science, policy and management issues NEED to be addressed
- Advance opportunities for technological innovation



Parting Shots



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Be guided by constellation of ideas, not just the North Star



For More Information



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http://www.nature.nps.gov/air

