

Continuing . . .

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Thoughts and Plans on Future Research at ESRL

- A few words on Integration
- Society in transition
- Mapping future research to evolving needs
- Focus areas and approaches
- Goals, approaches, and Themes





A few words on integration

- Current Review in light of ESRL Structure
 - Division Breakdown
 - ESRL Integrating Research Themes
 - Integrating Research – now and future directions
- Maintaining Integration Beyond ESRL
 - National
 - International





Society in Transition

- Evolving Challenges
 - Population Growth
 - The Developing World
 - Demand for Natural Resources
 - Climate Change
- Addressing Climate Change
 - Approaches will be Regional
 - Legislation will be Imperfect
 - Where Research Fits in





Mapping Future Research to Evolving Needs

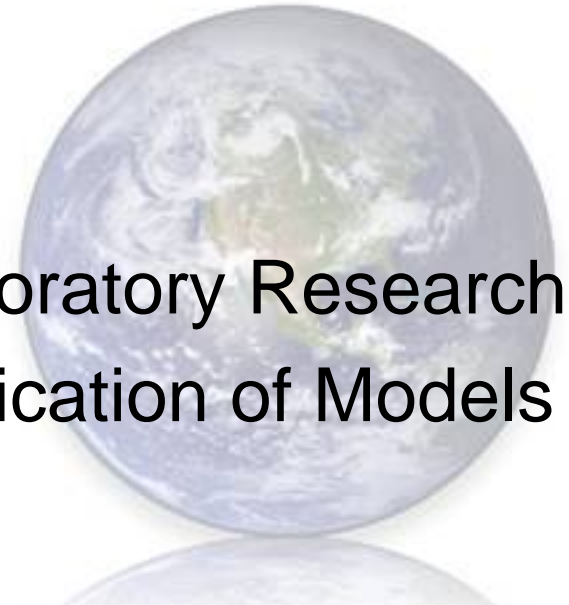
- Some “Cross Cutting” Themes
 - Linkage between Ozone and Climate
 - Linkage between Climate and Air Quality
 - Validation & Verification – “Honest Brokers”
 - Satellite retrievals
 - Emissions verification
 - Satellite validation
 - Understanding Feedbacks





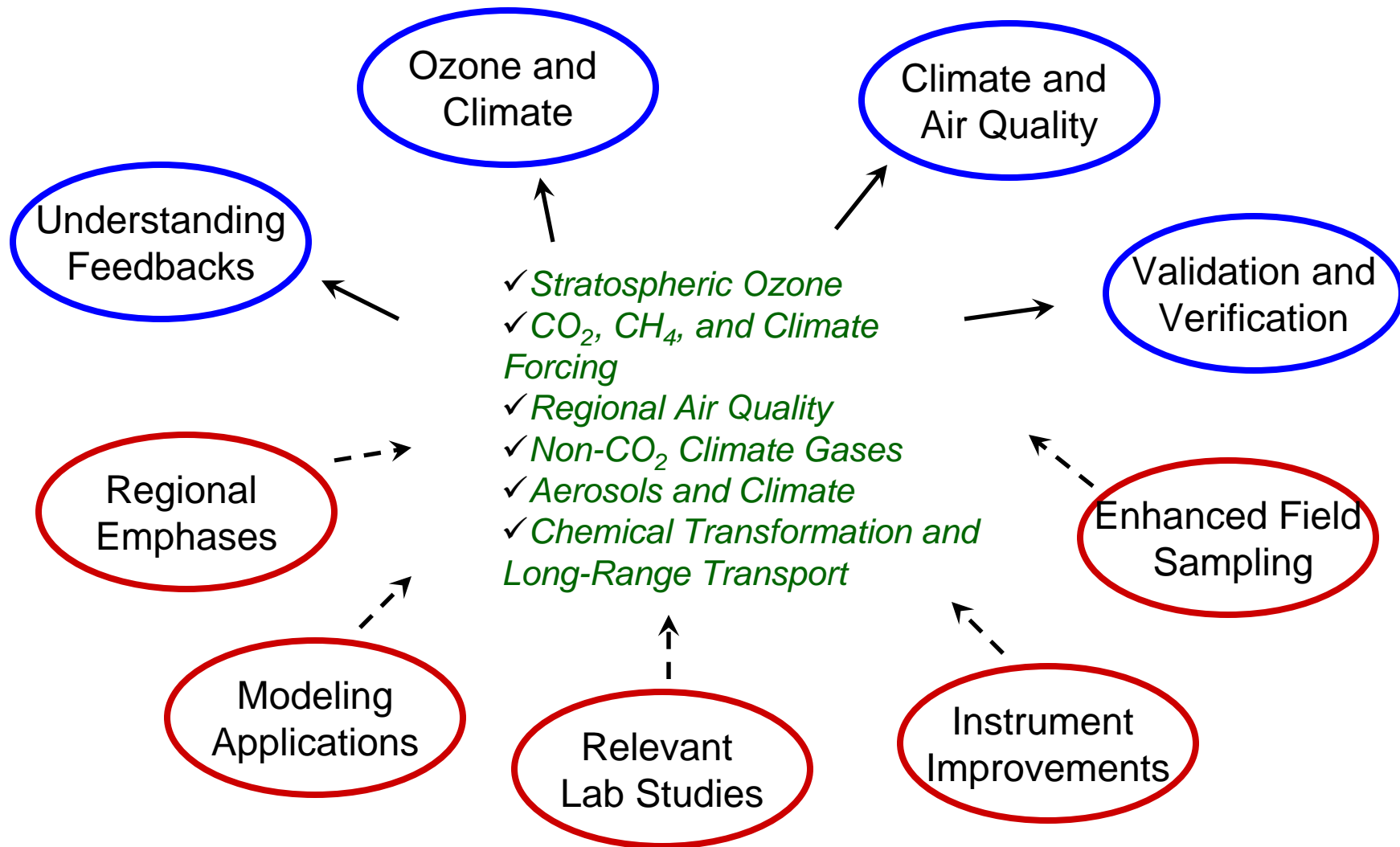
Focus Areas and Approaches

- Regional Emphases
- Continued Improvements in Instrumentation
- Enhanced Field Sampling
 - To answer evolving questions
 - To reduce uncertainties
 - Southern hemispheric sampling
- Continued and Enhanced Laboratory Research
- Continued and Improved Application of Models





Goals, Approaches, and ESRL Themes





Thank you, thank you,
thank you . . .

From all of us!

