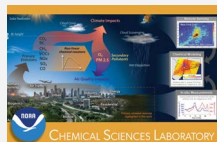




2021 Science Review StoryMap Guide

1. Research Theme: Air Quality



1.1. [Air Quality: Emissions to Impacts](#)

1. Introduction
2. Shale Oil and Gas
3. Wintertime Pollution
4. Urban Air Quality
5. COVID-19 Impacts
6. Summary



1.2. [Wild and Prescribed Fires: from the Lab to the Field](#)

1. Introduction
2. 2016 FireLab
3. 2019 FIREX-AQ
4. Models
5. NOAA Relevance



1.3. [Atmospheric Composition, Chemistry, and Dynamics](#)

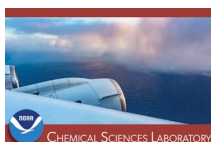
1. Introduction
2. Global Emissions
3. Atmospheric Composition
4. Atmospheric Dynamics

2. Research Theme: Climate



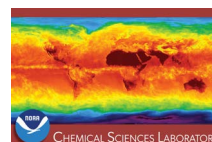
2.1. [Aerosol-Cloud Interactions](#)

1. Introduction
2. Global Aerosol Budget
3. Clouds in Climate Models
4. Aerosol-Cloud Interactions



2.2. [Aerosol & Their Role in Climate](#)

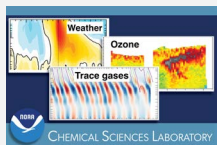
1. Introduction
2. Biomass Burning
3. Global-scale Measurements
4. Climate Modeling & Analysis



2.3. [Greenhouse Gases \(GHGs\) & Short-lived Climate Forcers \(SLCFs\)](#)

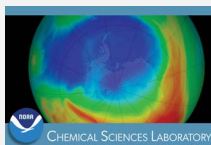
1. Introduction
2. Methane
3. Tropospheric Ozone
4. Black & Brown Carbon Aerosol

3. Research Theme: Stratosphere



3.1. [Stratosphere-Troposphere Coupling & Impacts on the Surface](#)

1. Introduction
2. Surface Weather & Prediction
3. Tropospheric & Surface Ozone
4. Trace Gases & Emissions
5. Summary



3.2. [Stratospheric Composition and Dynamics](#)

1. Introduction
2. UT/LS Airborne Observations
3. Ozone Depletion and Recovery
4. Circulation and Composition
5. Summary



3.3. [Stratospheric Aerosols](#)

1. Introduction
2. Modeling
3. Aircraft Measurements
4. Balloon Profiles
5. Future Directions

4. Research Strategies



4.1. [Innovative Instrumentation](#)

1. Introduction
2. Innovation
3. Evolution
4. Adaptation



4.2. [Laboratory Studies](#)

1. Introduction
2. Capabilities/Tour
3. Air Quality
4. Stratosphere/Climate
5. Climate



4.3. [Field Campaigns](#)

1. Introduction
2. CSL's Main Research Areas
3. Stakeholder/Program Needs
4. Future



4.4. [Model Development & Applications](#)

1. Introduction
2. Weather/Dynamics
3. Air Quality
4. Climate

5. Leadership & Contributions



5.1. [CSL Leadership & Contributions to the Scientific Community](#)

1. Introduction
2. Montreal Protocol
3. NCA4
4. TOAR
5. Additional Assessments
6. Datasets
7. Full Compilation