



Developing an Implementation Roadmap for Contrail Mitigation

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Conrail Impact Task Force Goals



Share and expand upon the latest science on the climate impact of contrails



Explore and test potentially actionable strategies to safely avoid warming contrails while minimizing additional CO₂ emissions



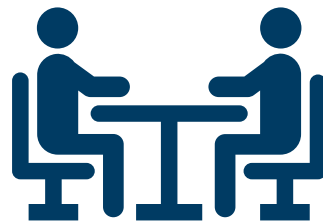
Identify the operational and financial challenges of implementing potential solutions



Establish a roadmap for implementation and validation of contrail mitigation tools

The objective of the roadmap is to...

“Develop a shared vision and collective understanding of the critical steps needed to reduce uncertainty associated with the climate impact and prediction of contrails and develop methodologies for mitigation at scale.”





This document is intended to serve as an educational resource to help answer...

- **Current understanding of the climate impact of contrails?**
- **What predication and validation tools are available/in development?**
- **Improvements needed to increase contrail confidence?**
- **Operational dependencies of contrail mitigation?**
- **Implications of scaled contrail mitigation?**
- **Systems needed to establish effective MRV?**
- **How to communicate climate impacts?**



We are assembling focus groups to collect targeted input in November and December...

- **Conrail Climate Impact Focus Group**

- Purpose: Discuss the range of metrics available for measuring the climate impact of contrails and identify pros and cons of each

- **Conrail Prediction, Observation/Verification, and Calibration Focus Group**

- Purpose: Discuss the complete range of contrail prediction and observation/verification techniques available, their benefits and limitations, improvements that are needed, and automation processes

- **Operationalizing Conrail Mitigation Focus Group**

- Purpose: Discuss the process of integrating forecast contrail prediction models into flight planning systems, operational dependencies of contrail mitigation and tradeoffs, and airspace management

- **Reporting, Incentives, and Regulatory Actions Focus Group**

- Purpose: Discuss the minimum components and systems needed to establish a rigorous accounting framework for contrail mitigation to support potentially viable incentives and/or regulatory actions