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Ozone Data Assimilation with GEOS-Chem: a Comparison Between 3D-Var, 4D-Var, and Suboptimal Kalman Filter Approaches

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Initial Submission

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Author's Statement: Dear Editor,

The manuscript brings timely information to the growing part of community interested in chemical data assimilation. It compares the performance of several data assimilation schemes using real satellite data and the GEOS-Chem chemical transport model. This study brings light to the important questions "which assimilation scheme should I use?" and "what are the trade-offs between accuracy of assimilation, computational cost, and software development effort?"

Sincerely yours,
Adrian Sandu

Suggested Referees:

First Choice Index Terms:

Subject:	Gases
Research Activity:	Atmospheric Modelling
Altitude Range:	Troposphere
Science Focus:	Chemistry (chemical composition and reactions)

Second Choice Index Terms:

Subject:	Aerosols
Research Activity:	Remote Sensing
Altitude Range:	Troposphere
Science Focus:	Chemistry (chemical composition and reactions)