

# Inversion of $\text{NO}_x$ Emissions over China with a Combination of Mass Balance and 4D-Var Approaches

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GEOS-Chem  
nested

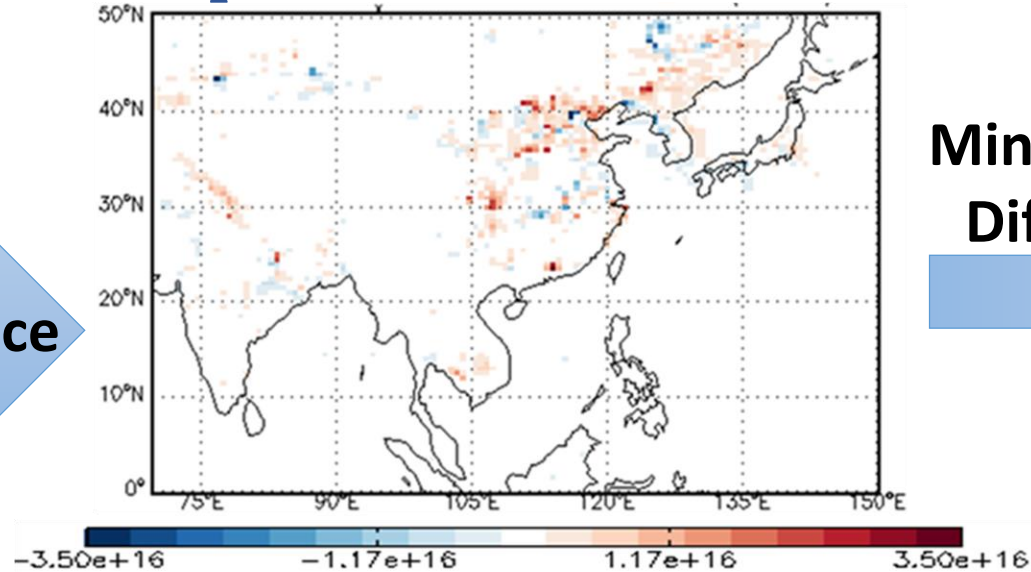


Difference

OMI



$\text{NO}_2$  Column Density (GC-OMI)



Minimize the  
Difference

Mass Balance? 4D-Var?  
Hybrid Inverse Modeling?

How to Facilitate Decadal Scale  $\text{NO}_x$   
Emission Inversions over China?

