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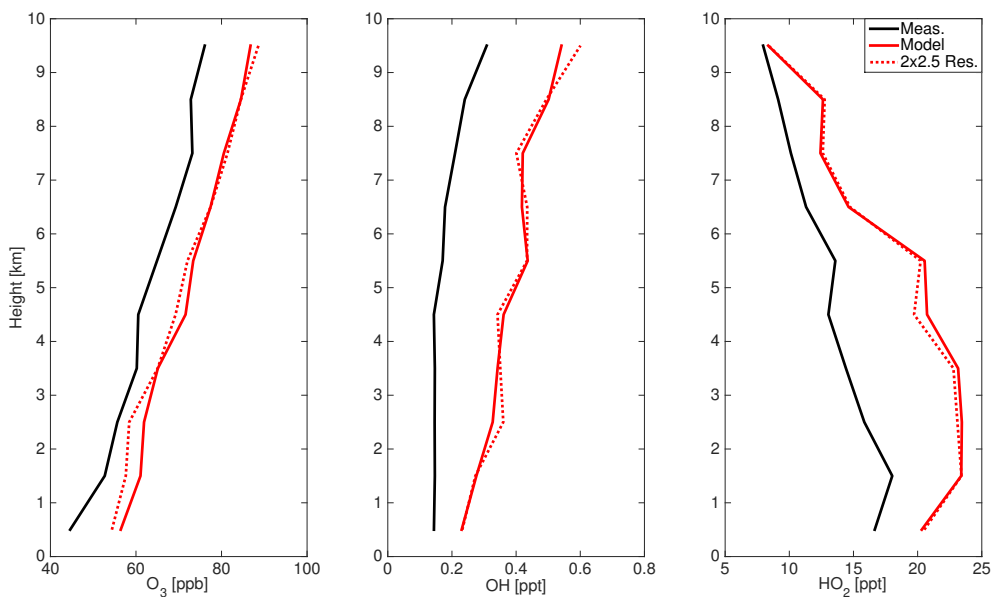
*Supplement of*

## **Global sensitivity analysis of GEOS-Chem modeled ozone and hydrogen oxides during the INTEX campaigns**

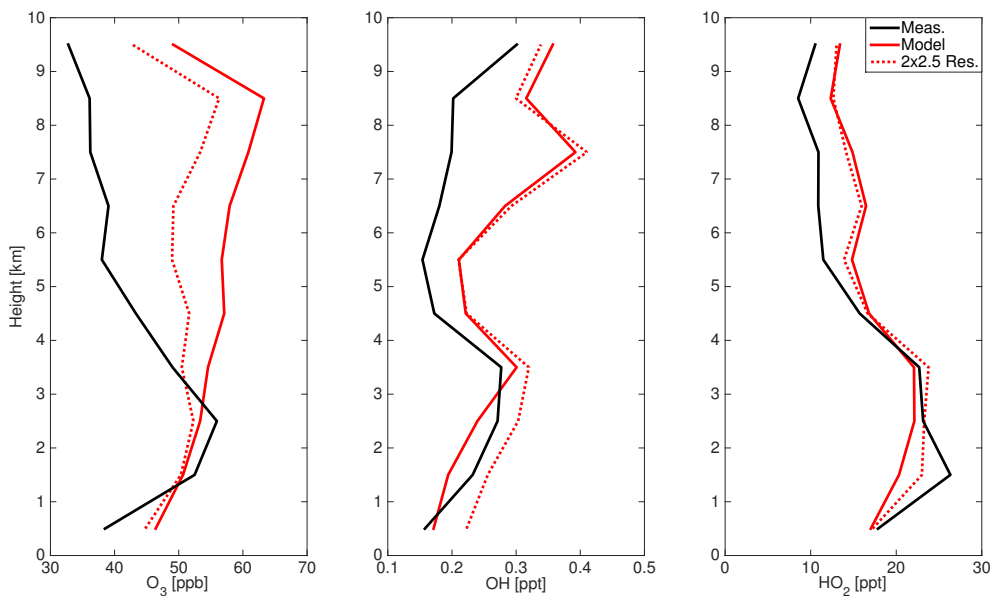
**Kenneth E. Christian et al.**

*Correspondence to:* Kenneth E. Christian ([kenneth-christian@uiowa.edu](mailto:kenneth-christian@uiowa.edu))

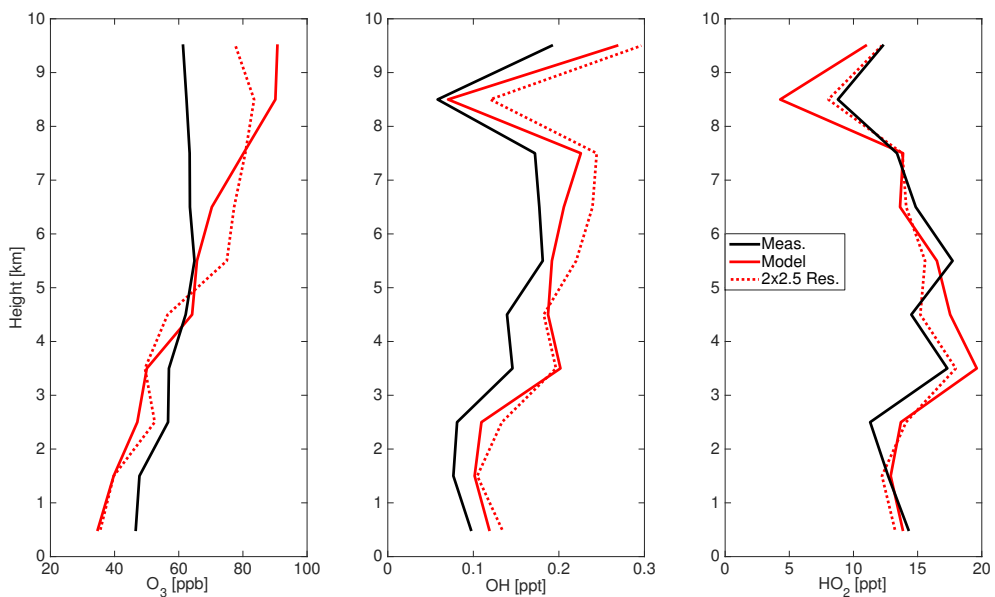
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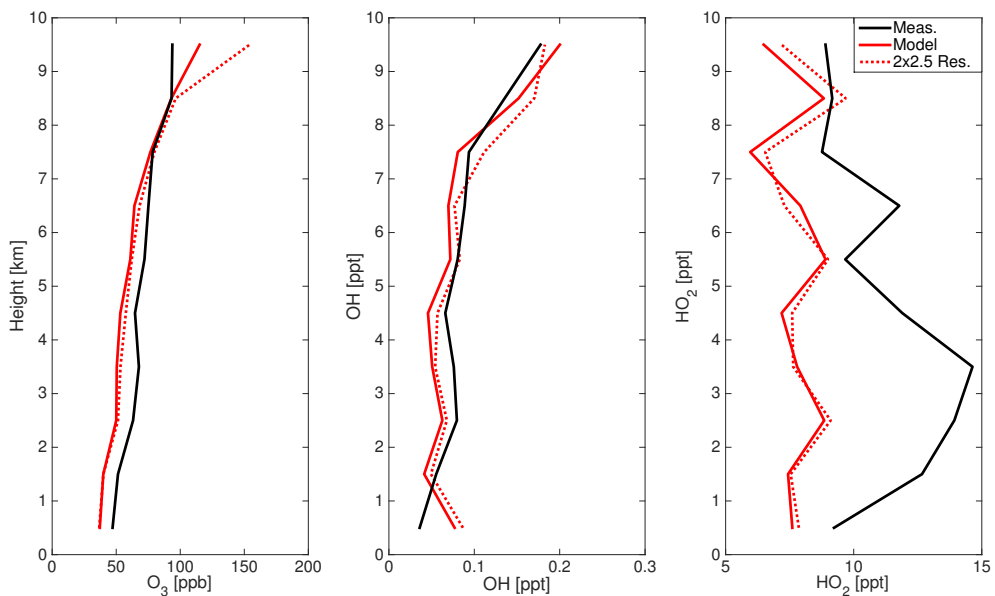
**Figure S 1.** Vertical profile for  $4^\circ \times 5^\circ$  median modeled (red solid),  $2^\circ \times 2.5^\circ$  median modeled (red dotted) and median measured (black)  $O_3$ , OH, and  $HO_2$  for INTEX-A flight data binned by kilometer.



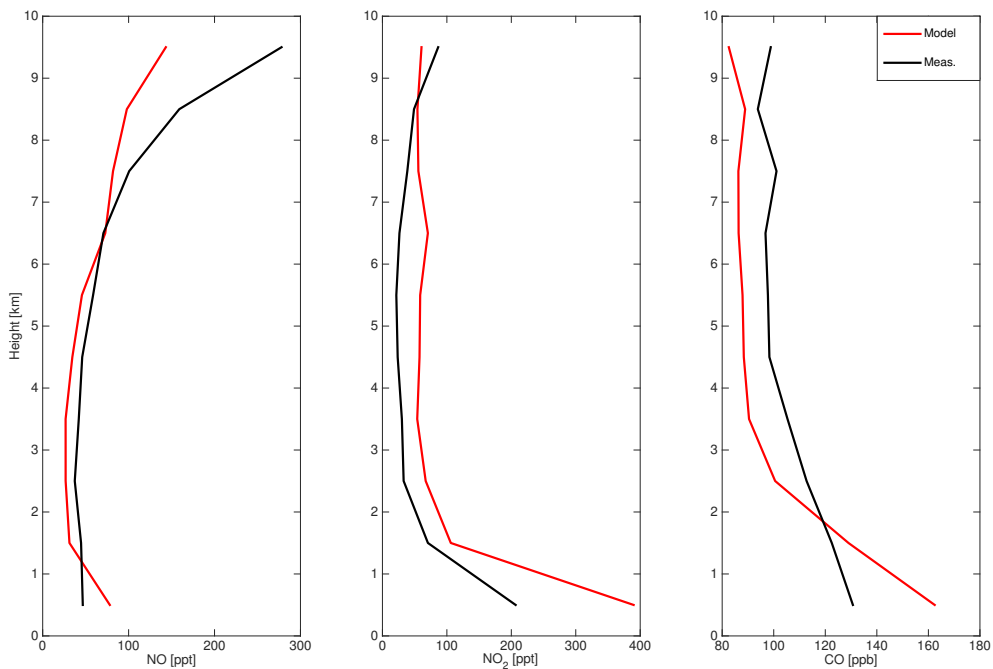
**Figure S 2.** Vertical profile for  $4^\circ \times 5d$  median modeled (red solid),  $2^\circ \times 2.5^\circ$  median modeled (red dotted) and median measured (black)  $O_3$ , OH, and  $HO_2$  for Houseon based INTEX-B flight data binned by kilometer.



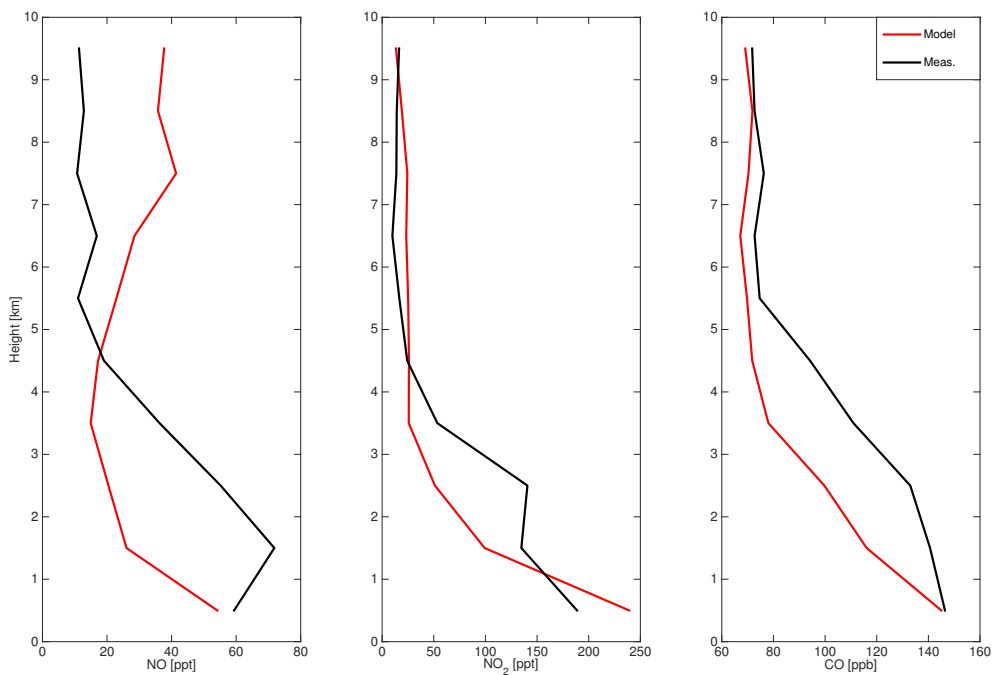
**Figure S 3.** Vertical profile for  $4^\circ \times 5^\circ$  median modeled (red solid),  $2^\circ \times 2.5^\circ$  median modeled (red dotted) and median measured (black)  $O_3$ , OH, and  $HO_2$  for Honolulu Based INTEX-B flight data binned by kilometer.



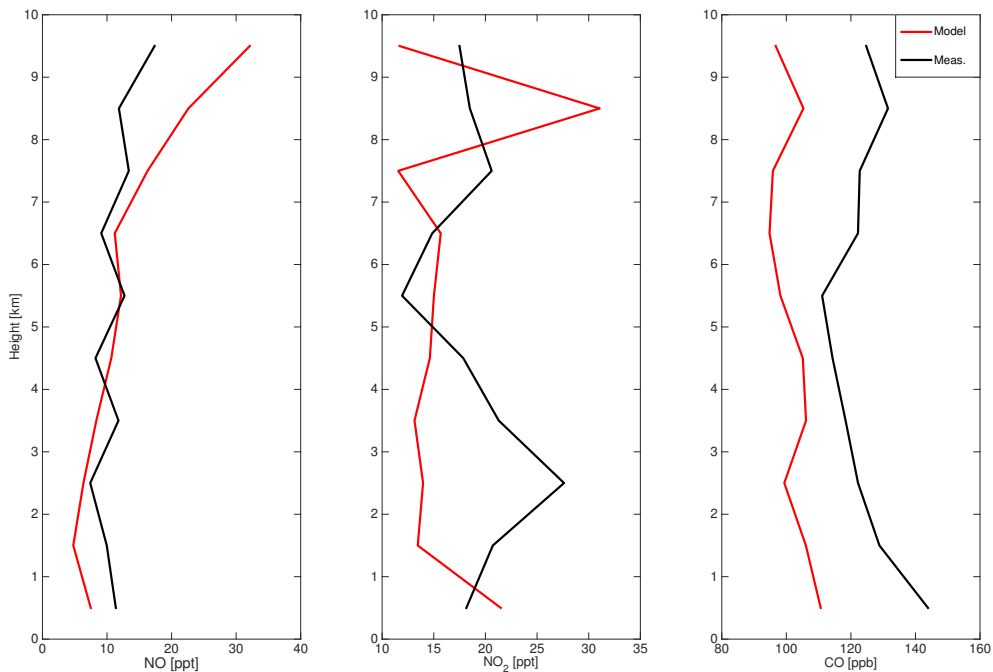
**Figure S 4.** Vertical profile for  $4^\circ \times 5^\circ$  median modeled (red solid),  $2^\circ \times 2.5^\circ$  median modeled (red dotted) and median measured (black)  $O_3$ , OH, and  $HO_2$  for Anchorage based INTEX-B flight data binned by kilometer.



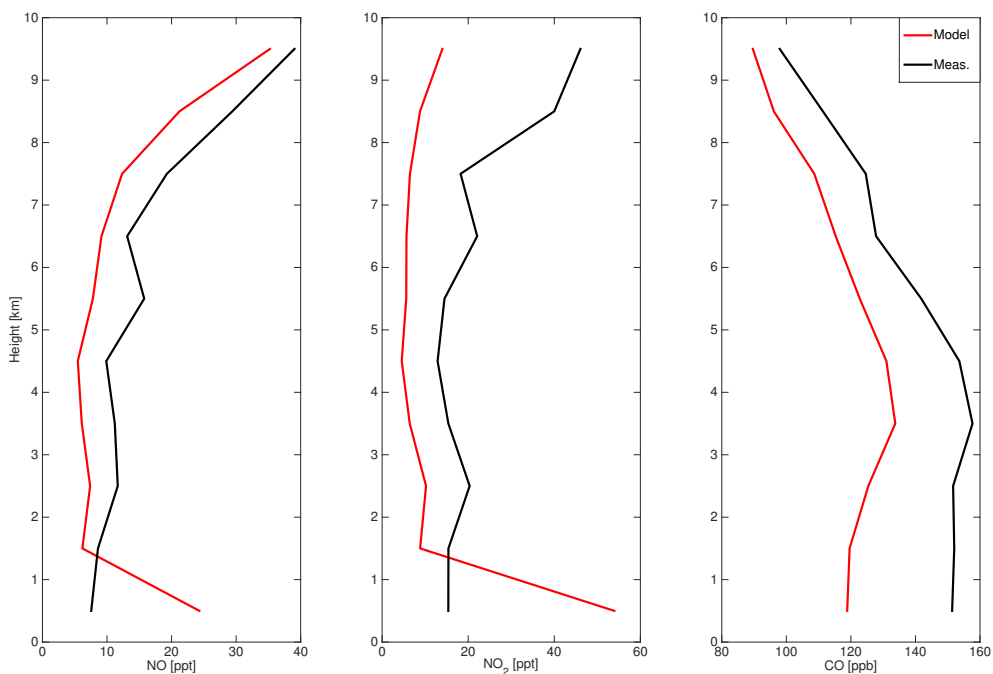
**Figure S 5.** Vertical profile for median modeled (red) and measured (black) NO, NO<sub>2</sub>, and CO for INTEX-A flight data binned by kilometer.



**Figure S 6.** Vertical profile for median modeled (red) and measured (black) NO, NO<sub>2</sub>, and CO for Houston based INTEX-B flight data binned by kilometer



**Figure S 7.** Vertical profile for median modeled (red) and measured (black) NO, NO<sub>2</sub>, and CO for Honolulu based INTEX-B flight data binned by kilometer



**Figure S 8.** Vertical profile for median modeled (red) and measured (black) NO, NO<sub>2</sub>, and CO for Anchorage based INTEX-B flight data binned by kilometer