Supplement of

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

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**Figure S 1.** Vertical profile for 4° x 5° median modeled (red solid), 2° x 2.5° median modeled (red dotted) and median measured (black) O₃, OH, and HO₂ for INTEX-A flight data binned by kilometer.

**Figure S 2.** Vertical profile for 4° x 5° median modeled (red solid), 2° x 2.5° median modeled (red dotted) and median measured (black) O₃, OH, and HO₂ 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$_2$, and CO for INTEX-A flight data binned by kilometer.

Figure S 6. Vertical profile for median modeled (red) and measured (black) NO, NO$_2$, 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\textsubscript{2}, 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\textsubscript{2}, and CO for Anchorage based INTEX-B flight data binned by kilometer.