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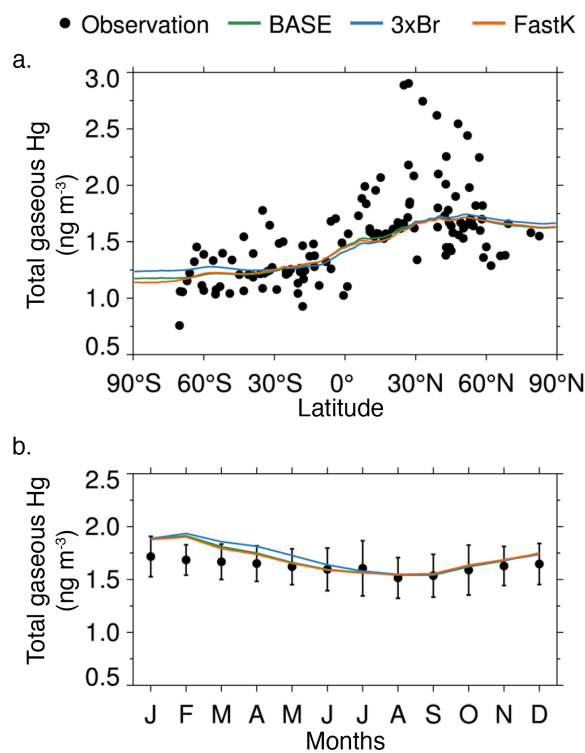
*Supplement of*

## **Origin of oxidized mercury in the summertime free troposphere over the southeastern US**

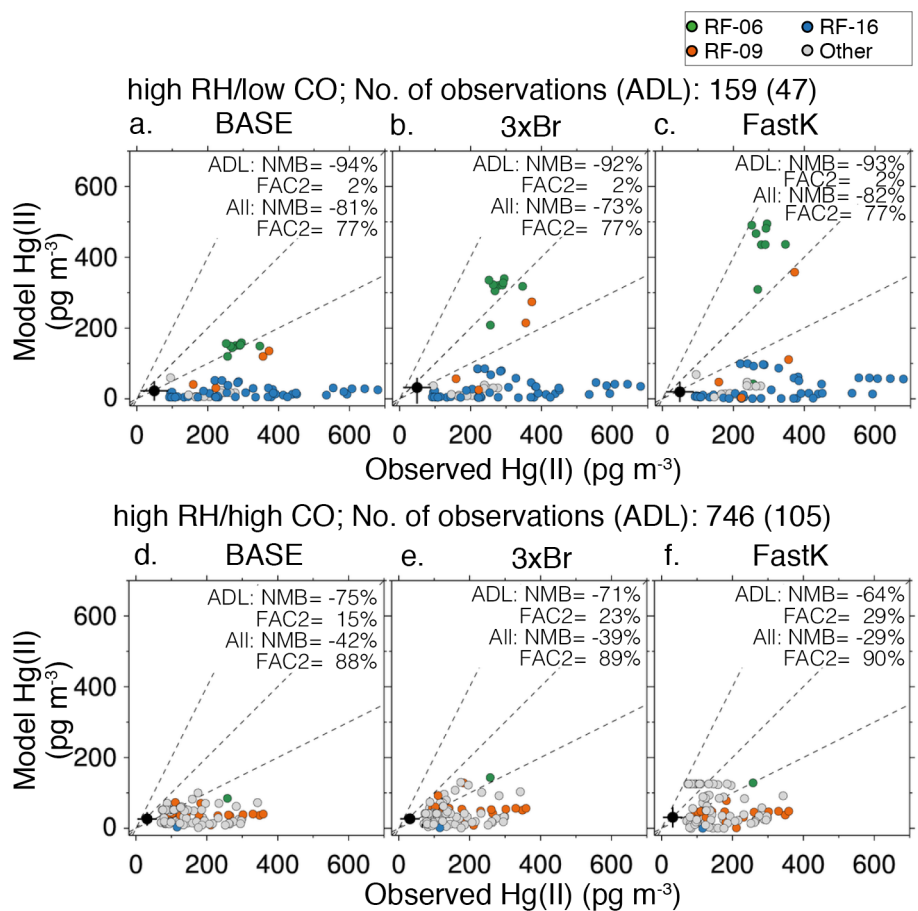
**V. Shah et al.**

*Correspondence to:* V. Shah (vshah@uw.edu)

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**Figure S1.** Comparison between observed and modeled total gaseous Hg at the surface: **a)** inter-hemispheric gradient and **b)** seasonal cycle at midlatitudes. The observational data is from Holmes et al. (2010) and references therein. The observations in panel **a** include annual means for 39 land-based sites during 2000-2008 and measurements from four ship cruises. The model results in panel **a** are the annual and zonal means for the three simulations (BASE, 3xBr, FastK) for the year 2013. The observations in panel **b** are monthly means for 15 land-based sites in North America and Europe. The model results in panel **b** are the monthly means at the site locations for the three simulations for the year 2013.



**Figure S2.** Same as Figure 5, except for the "high RH/low CO" and "high RH/high CO" categories.

## References

Holmes, C. D., Jacob, D. J., Corbitt, E. S., Mao, J., Yang, X., Talbot, R., and Slemr, F.: Global atmospheric model for mercury including oxidation by bromine atoms, *Atmos. Chem. Phys.*, 10, 12 037–12 057, doi:10.5194/acp-10-12037-2010, 2010.