



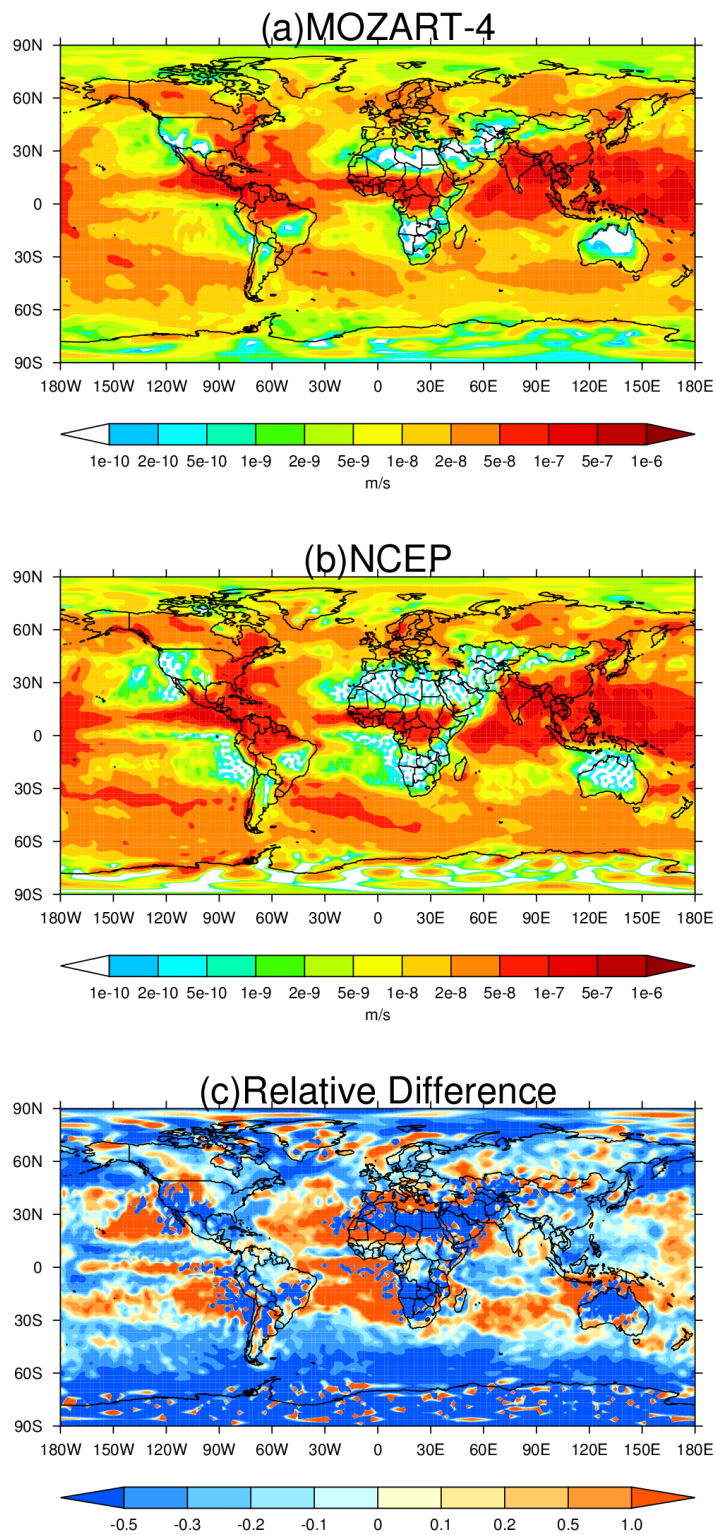
*Supplement of*

## **Long-range transport of black carbon to the Pacific Ocean and its dependence on aging timescale**

**J. Zhang et al.**

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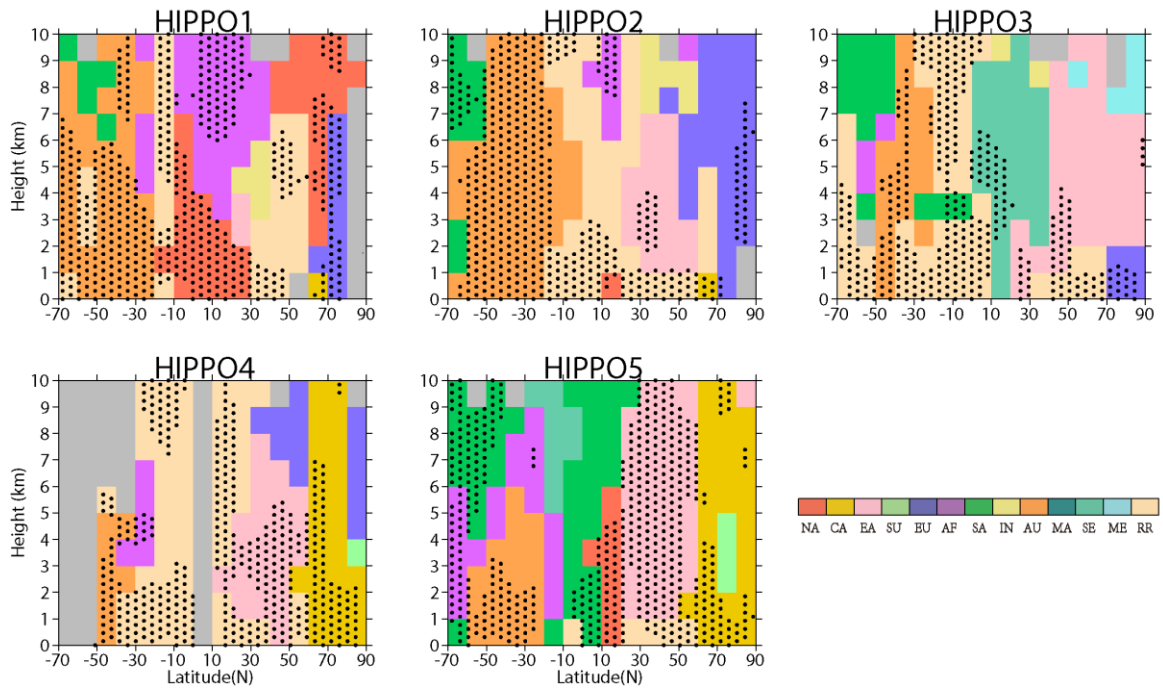
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2 Figure S1. Average precipitation in August 2011: (a) MOZART-4 model, (b) NCEP reanalysis  
 3 data, (c) the relative difference (MOZART-4 minus NCEP, normalized by NCEP).

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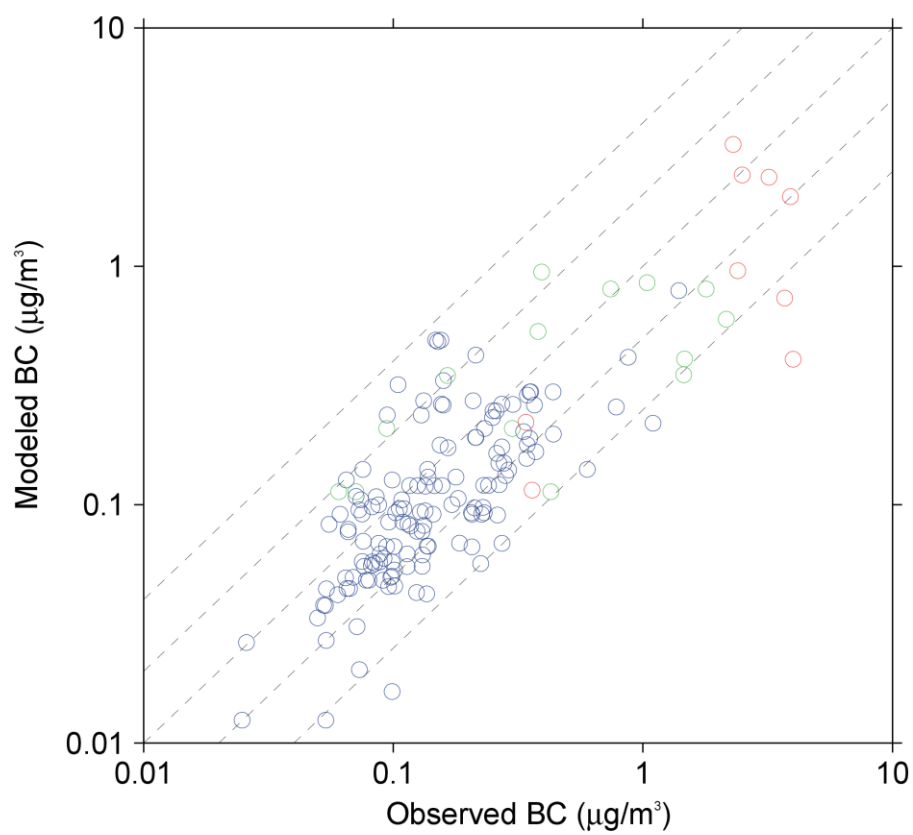


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2 Figure S2. The most significant regional contributors to BC mass mixing ratios along the  
 3 trajectories of five HIPPO campaigns, averaged over 1 km altitude and 10° latitude bins.

4 Dotted areas represent where the most significant contributor accounts for more than 50% of  
 5 the total BC mixing ratio.

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2 Figure S3. Modeled versus observed surface annual mean concentration of BC at sites in  
3 IMPROVE (blue), EMEP (green), and China (red). Dash lines are 1 : 4, 1 : 2, 1 : 1, 2 : 1, and  
4 4 : 1 ratio lines. BC observations in China are attained from Zhang et al. (2008).

1 **References**

2 Zhang, X. Y., Wang, Y. Q., Zhang, X. C., Guo, W., and Gong, S. L.: Carbonaceous aerosol  
3 composition over various regions of China during 2006, *Journal of Geophysical*  
4 *Research-Atmospheres*, 113, Artn D14111 Doi 10.1029/2007jd009525, 2008.

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