1	Supplementary material
2	
3	
4	
5	Brown Carbon and Water-Soluble Organic Aerosols Over the Southeastern United States
6 7	Southeastern United States
8	
9 10	
11 12 13	Arsineh Hecobian ¹ , Xiaolu Zhang ¹ , Mei Zheng ¹ , Neil Frank ² , Eric S. Edgerton ³ , Rodney J. Weber ^{1*}
14 15 16	¹ Georgia Institute of Technology, School of Earth and Atmospheric Sciences, Atlanta, Georgia, USA
17 18 19	Office of Air Quality Planning & Standards, US Environmental Protection Agency, 109 TW Alexander Drive, Research Triangle Park, NC, USA
21	³ Atmospheric Research and Analysis, Inc, Durham, North Carolina, USA
20 21 22 23 24	* Corresponding Author Rodney Weber, rweber@eas.gatech.edu
25	
26 27 28 29 30	Figure 1S. Composition profiles (% of total of each species) for the four factors resolved by PMF based on all 15 FRM sites (left panel), and the time series over 2007 (indicated by first letter of the month) of relative contribution of each factor (right panel). Ox2 stands for oxalate, levog for levoglucosan and Abs for absorbance averaged between 360 and 360 nm (A_{365} , see text Equation 1). Reproduced from Zhang et al., (2010) Fig. 9.
31	
32 33 34 35	Figure 2S. Composition profiles (% of total of each species) for the five factors resolved by PMF based on FRM and Speciation data sets at 7 EPA (urban) FRM/Speciation sites (left panel), and the time series of relative contribution of each factor (right panel). Reproduced from Zhang et al., (2010) Fig. 1S.
36	
37 38 39 40	Reference Zhang, X., A. Hecobian, M. Zheng, N. Frank, and R. J. Weber, Biomass buring impact on PM2.5 over the southeastern U.S.: Intgrating chemically speciated FRM filter measurements, MODIS fire counts and PMF analysis, Atm. Chem. Phys. Disc., 10, 7037-7077, 2010.



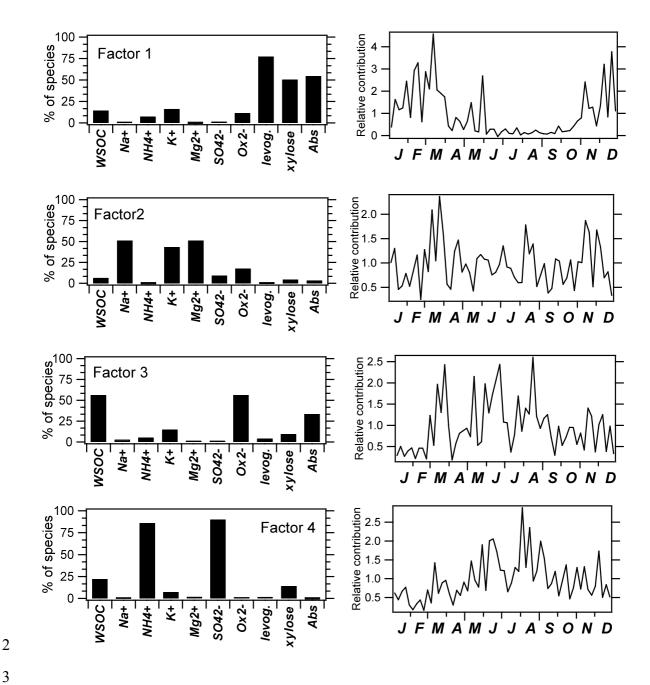


Figure 1S. Composition profiles (% of total of each species) for the four factors resolved by PMF based on all 15 FRM sites (left panel), and the time series over 2007 (indicated by first letter of the month) of relative contribution of each factor (right panel). Ox2 stands for oxalate, levog for levoglucosan and Abs for absorbance averaged between 360 and 360 nm (A_{365} , see text Equation 1). Reproduced from Zhang et al., (2010) Fig. 9.

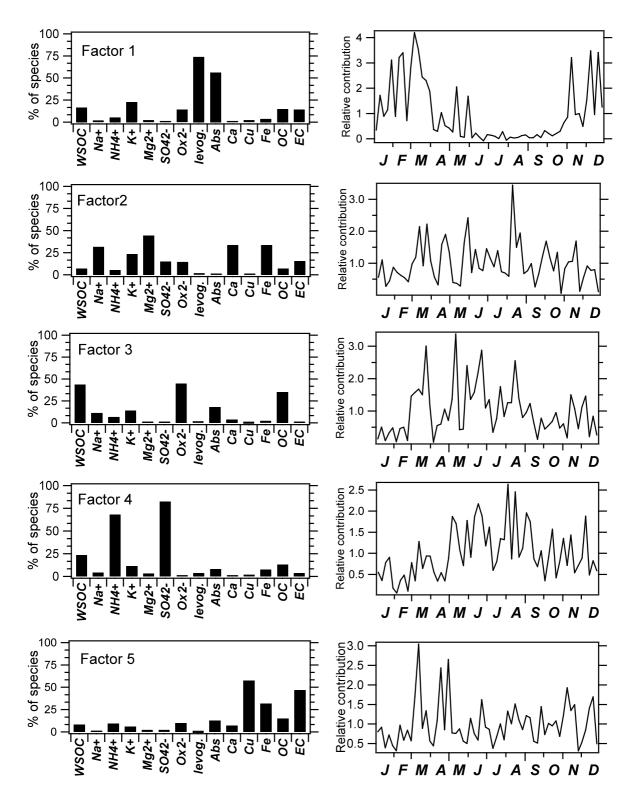


Figure 2S. Composition profiles (% of total of each species) for the five factors resolved by PMF based on FRM and Speciation data sets at 7 EPA (urban) FRM/Speciation sites (left panel), and the time series of relative contribution of each factor (right panel). Reproduced from Zhang et al., (2010) Fig. 1S.