

**Correction to our Response to Interactive comment by H. O. T. Pye on “Simulating Secondary Organic Aerosol in a Regional Air Quality Model Using the Statistical Oxidation Model: 2. Assessing the Influence of Vapor Wall Losses” by C. D. Cappa et al.**

An incorrect equation for converting from secondary organic aerosol (SOA) to secondary organic carbon (SOC) mass concentrations was previously given. The correct equation is:

$$C_{SOC} = C_{SOA} \cdot \frac{N_C \cdot MW_C}{MW_{SOA}} = \frac{N_C \cdot MW_C}{N_C \cdot MW_C + N_O \cdot MW_O + N_H \cdot MW_H} = \frac{C_{SOA}}{\frac{4}{3}(O:C) + \frac{1}{12}(H:C) + 1}$$

where  $MW_C$ ,  $MW_O$ ,  $MW_H$  are the molecular weights and  $N_C$ ,  $N_O$ , and  $N_H$  the number of carbon, oxygen and hydrogen atoms, respectively. This makes no difference to the conclusions reached.