$$MFB = \frac{2}{N}\left(\sum_{1}^{N}\frac{Model - Obs}{Model + Obs}\right)\times 100\% \qquad \text{Equation 1}$$

$$MFE = \frac{2}{N}\left(\sum_{1}^{N}\frac{|Model - Obs|}{Model + Obs}\right)\times 100\% \qquad \text{Equation 2}$$

$$NMB = \frac{\sum_{1}^{N}|Model - Obs|}{\sum_{1}^{N} Obs}\times 100\% \qquad \text{Equation 3}$$

$$NME = \frac{\sum_{1}^{N}|Model - Obs|}{\sum_{1}^{N} Obs}\times 100\% \qquad \text{Equation 4}$$

$$MNB = \frac{1}{N}\sum_{1}^{N}\frac{(Model - Obs)}{Obs}\times 100\% \qquad \text{Equation 5}$$

$$MNE = \frac{1}{N}\sum_{1}^{N}\frac{|Model - Obs|}{Obs}\times 100\% \qquad \text{Equation 6}$$

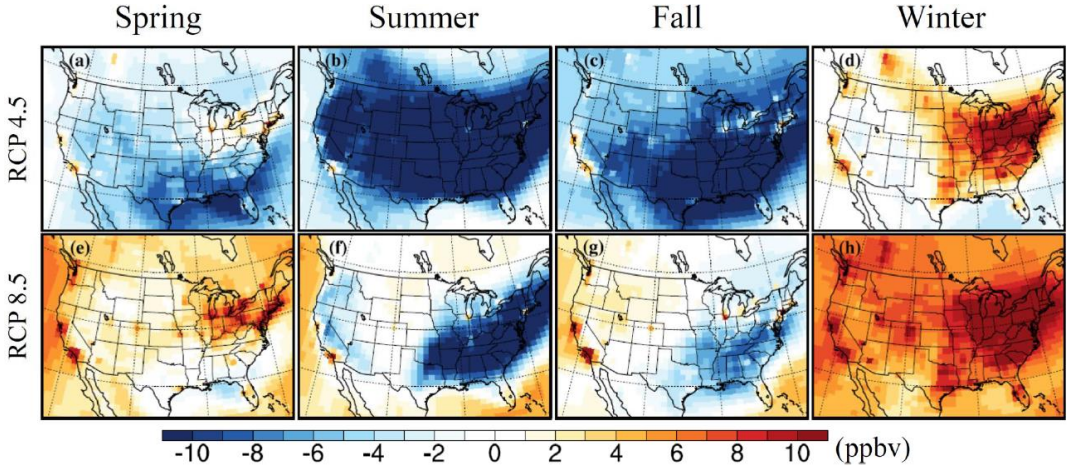

Fig. S1. Seasonal mean ozone changes from CAM-Chem outputs under future climate (2057-2059 minus 2001-2004) for RCP 4.5 (a-d), RCP 8.5(e-h), RCP 8.5 with present (2001-2004) boundary conditions (i-l)

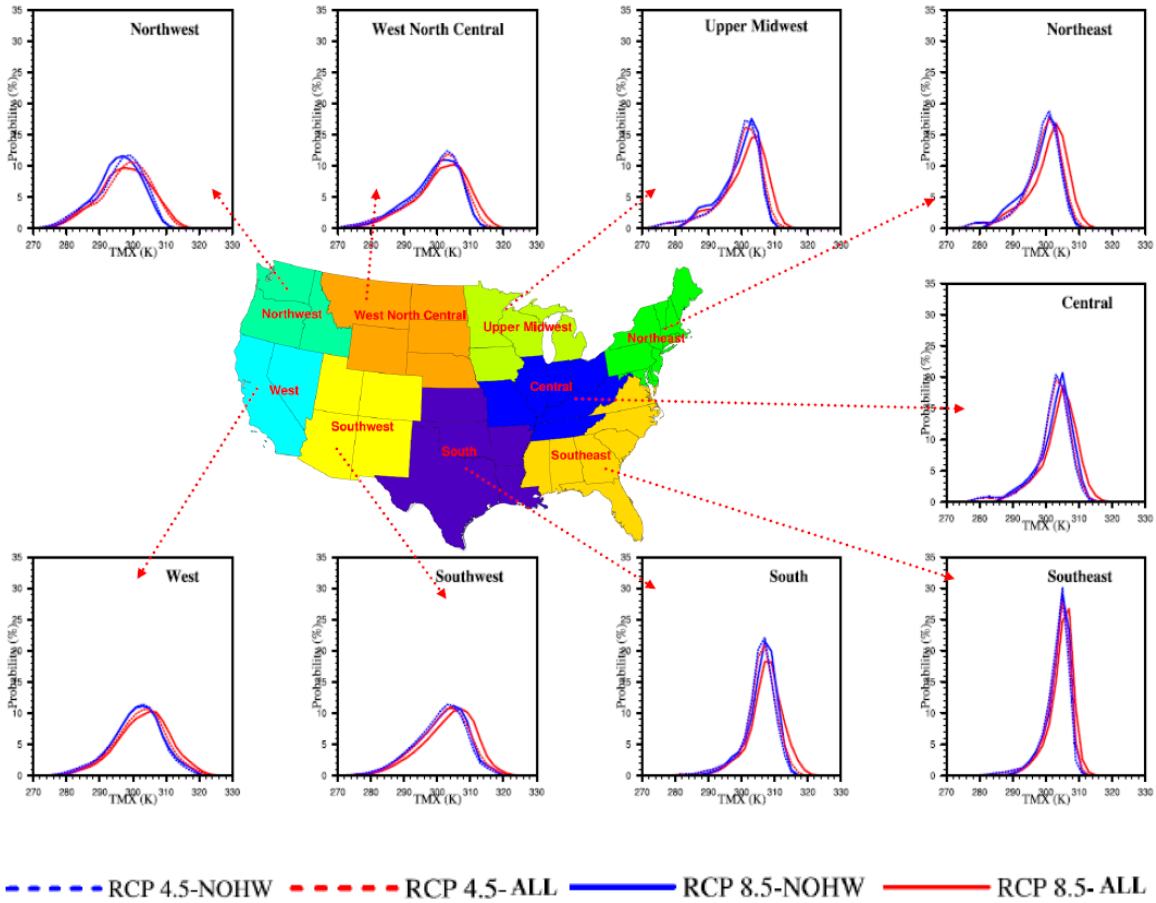

Fig. S2. Distributions of daily maximum temperature (TMX) during the entire period and non-heat wave period for RCP 4.5 and RCP 8.5 from June to October.