Table S2. Tree growth equations. Growth equations used to estimate the spatial relationship between aboveground tree growth and atmospheric deposition. *Note: BAL is the basal area of all trees greater than the tree of interest within the subplot divided by 4.*

$$G = a \times size^{z} \times e^{\left[a_{2}BAL + a_{3}\ln(BA)\right]} \times e^{\frac{-1}{2}\left(\frac{\ln\left(T/t_{1}\right)}{t_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(P/p_{1}\right)}{p_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(S/s_{1}\right)}{s_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(N/n_{1}\right)}{n_{2}}\right)^{2}}$$
(1)

$$G = a \times size^{z} \times e^{\left[a_{z}BAL + a_{3}\ln(BA)\right]} \times e^{\frac{-1}{2}\left(\frac{\ln\left(T/t_{1}\right)}{t_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(P/p_{1}\right)}{p_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(S/s_{1}\right)}{s_{2}}\right)^{2}}$$
(2)

$$G = a \times size^{z} \times e^{\left[a_{2}BAL + a_{3}\ln(BA)\right]} \times e^{\frac{-1}{2}\left(\frac{\ln\left(T/t_{1}\right)}{t_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(P/p_{1}\right)}{p_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(N/n_{1}\right)}{n_{2}}\right)^{2}}$$
(3)

$$G = a \times size^{z} \times e^{\left[a_{2}BAL + a_{3}\ln(BA)\right]} \times e^{\frac{-1}{2}\left(\frac{\ln\left(T/t_{1}\right)}{t_{2}}\right)^{2}} \times e^{\frac{-1}{2}\left(\frac{\ln\left(P/p_{1}\right)}{p_{2}}\right)^{2}}$$

$$(4)$$

$$G = a \tag{5}$$