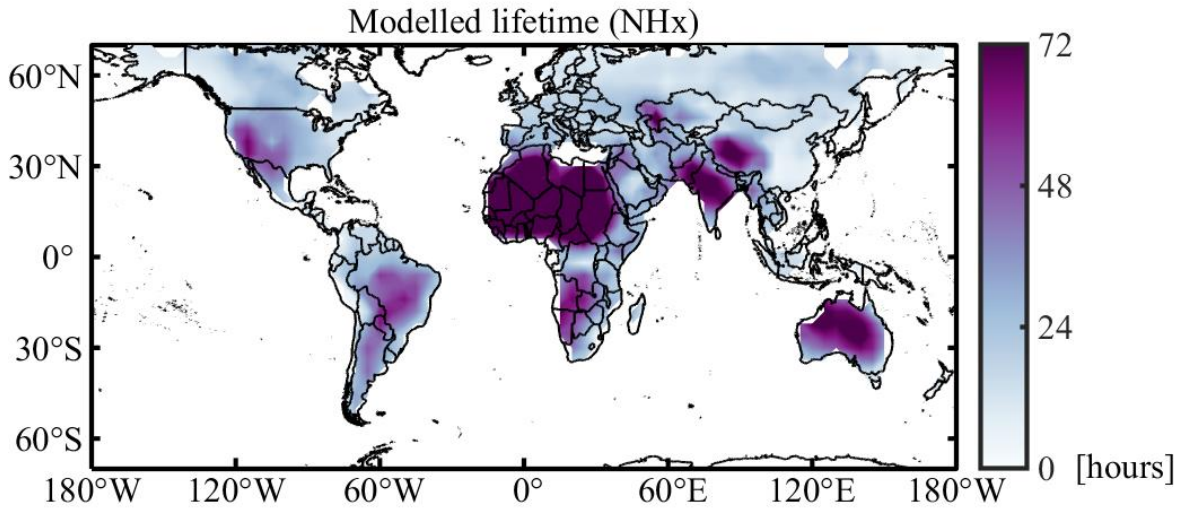
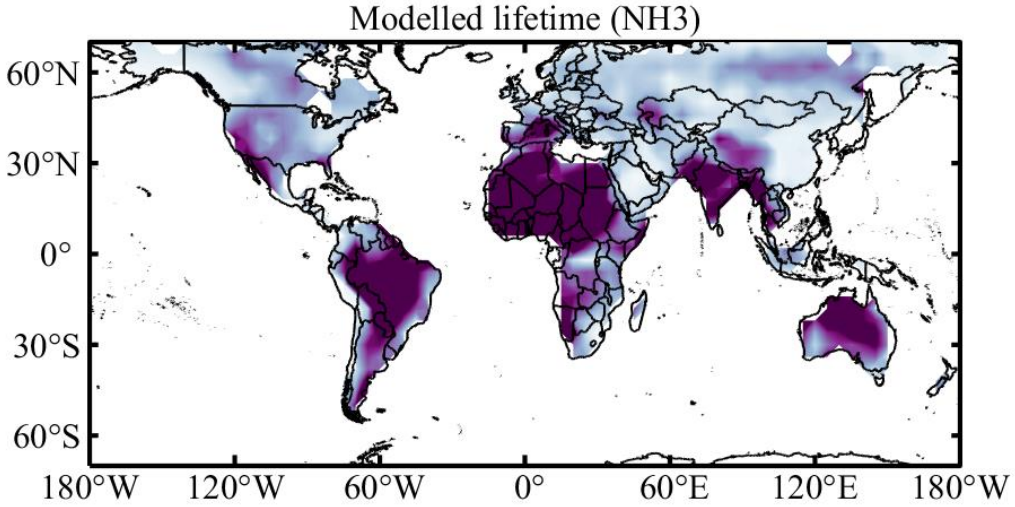
Compare lifetime and adjustment proportion

Zhenqi Luo 2021.11

Comparison

- lifetime
  - $\tau_{NH_x} = \frac{C_{NH_3,mod}}{D_{NH3,\mathrm{mod}} + D_{NH_4^+}}$
  - $\tau_{NH_3} = \frac{C_{NH_3,mod}}{D_{NH3,\mathrm{mod}} + L_{NH3,\mathrm{mod}}}$
  - τ_{12}= 12h
- Adjustment
  - Without adjustment: $\hat{E} = \frac{C_{NH_3,obs}}{\tau}$
  - With adjustment: $\hat{E} = E_{NH_3,obs} + \frac{C_{NH_3,obs} - C_{NH_3,mod}}{\tau}$





Emission: τ_{12}, τ_{NH_3}, τ_{NH_x}