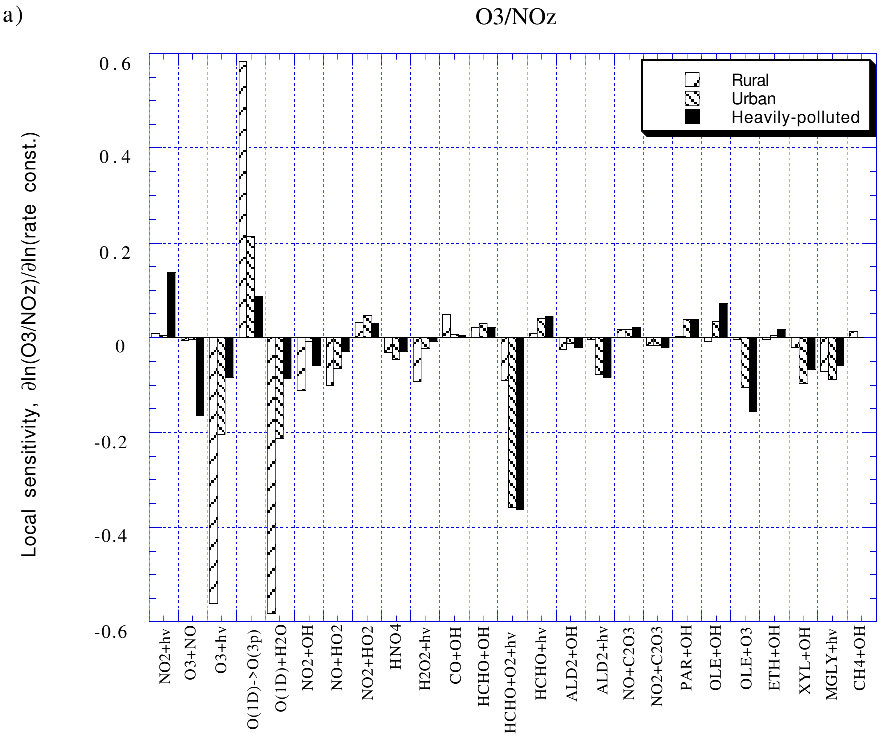
(a)



(b)

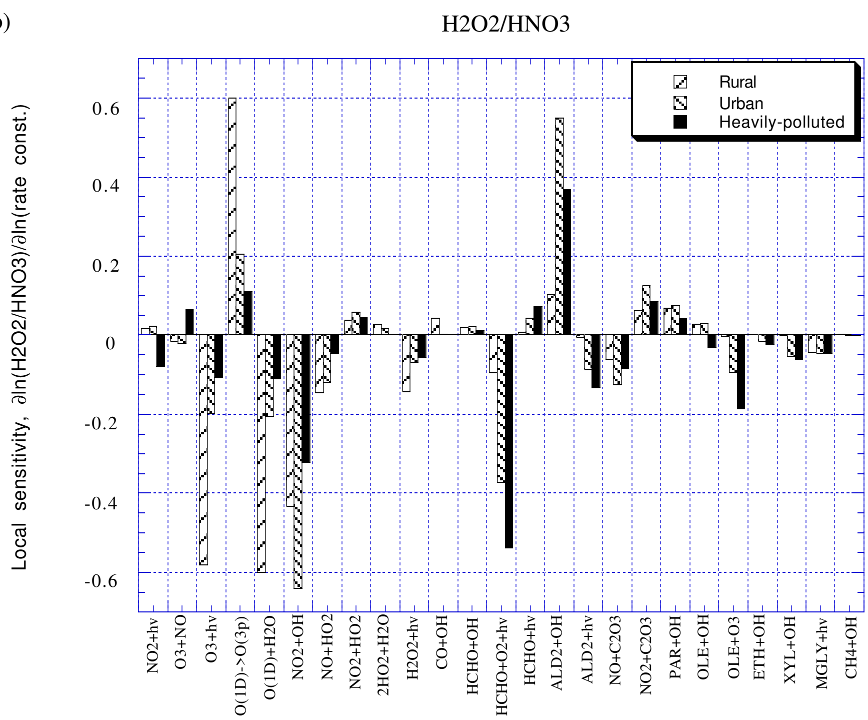


Figure 1. 1-hr averaged local sensitivities of (a) O3/NOz and (b) H2O2/HNO3 w.r.t. reaction rate constants under moderately-polluted (Rural), polluted (Urban) and heavily-polluted (Heavpoll) clear air conditions. Shown are the most influential reactions and their sensitivities.

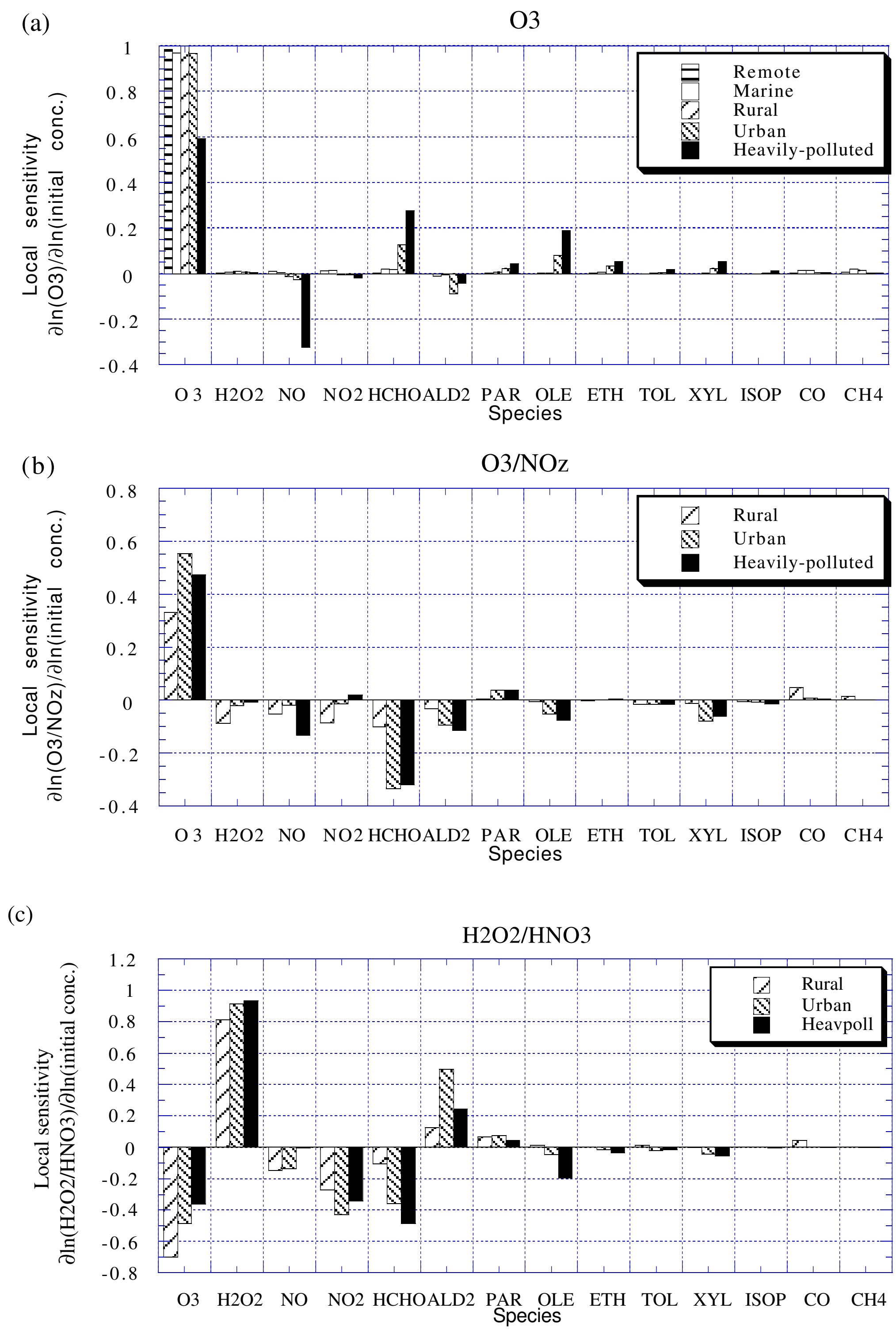


Figure 2. 1-hr averaged local sensitivities of (a) O3, (b) O3/NOz and (c) H2O2/HNO3 w.r.t. species initial concentrations under various clear air conditions. Shown are the most influential species and their sensitivities.

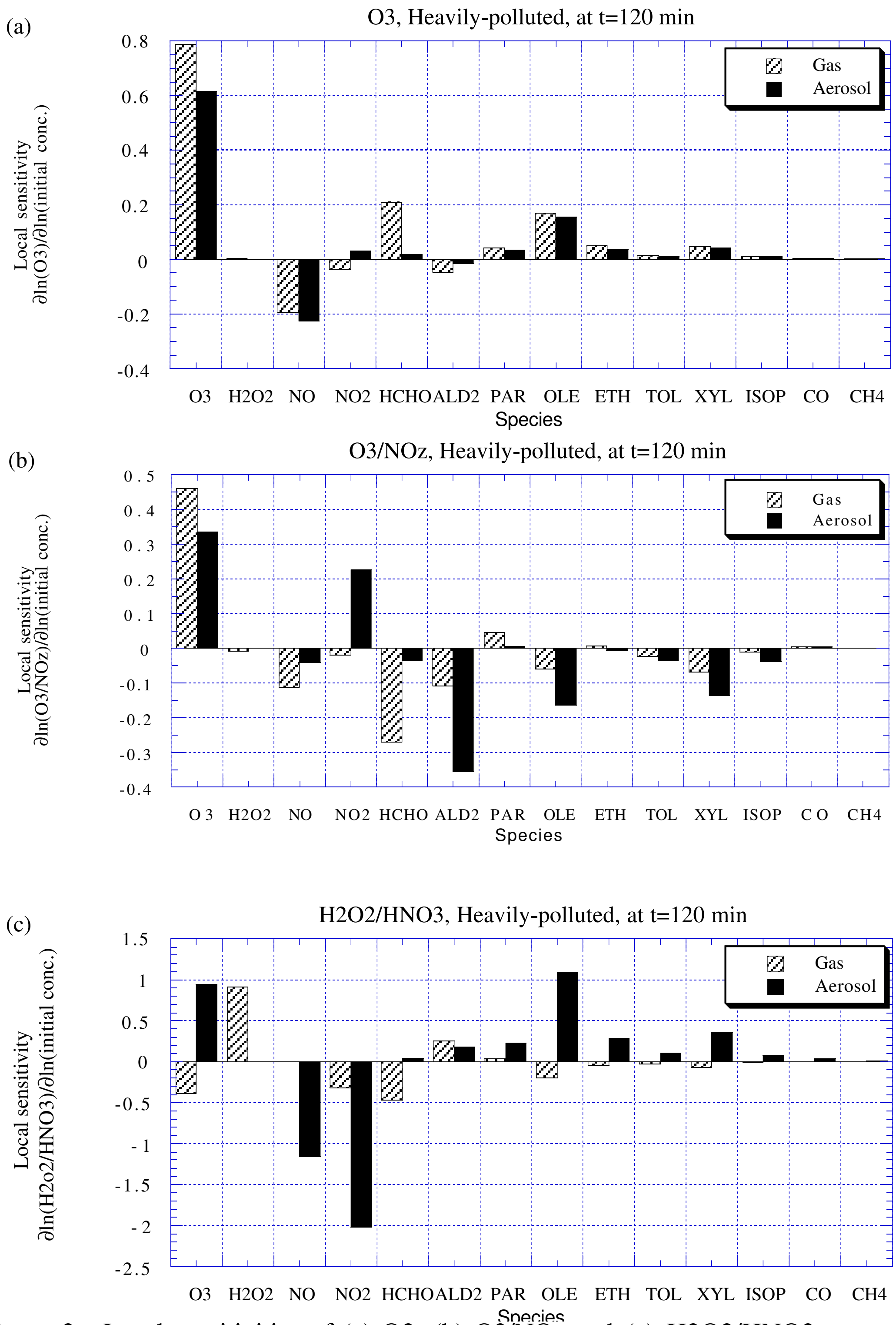
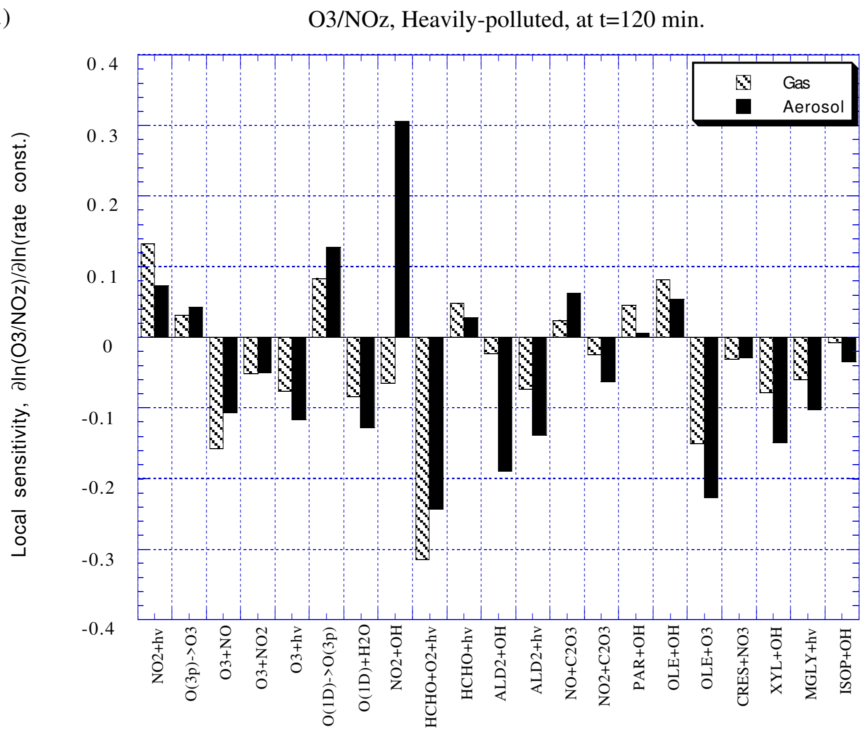


Figure 3. Local sensitivities of (a) O3, (b) O3/NOz and (c) H2O2/HNO3 w.r.t. species initial concentrations at t=120 minutes in the absence (Gas) and presence (Aerosol) of aerosols under heavily-polluted (Heavpoll) conditions. Shown are the most influential species and their sensitivities.

(a)



(b)

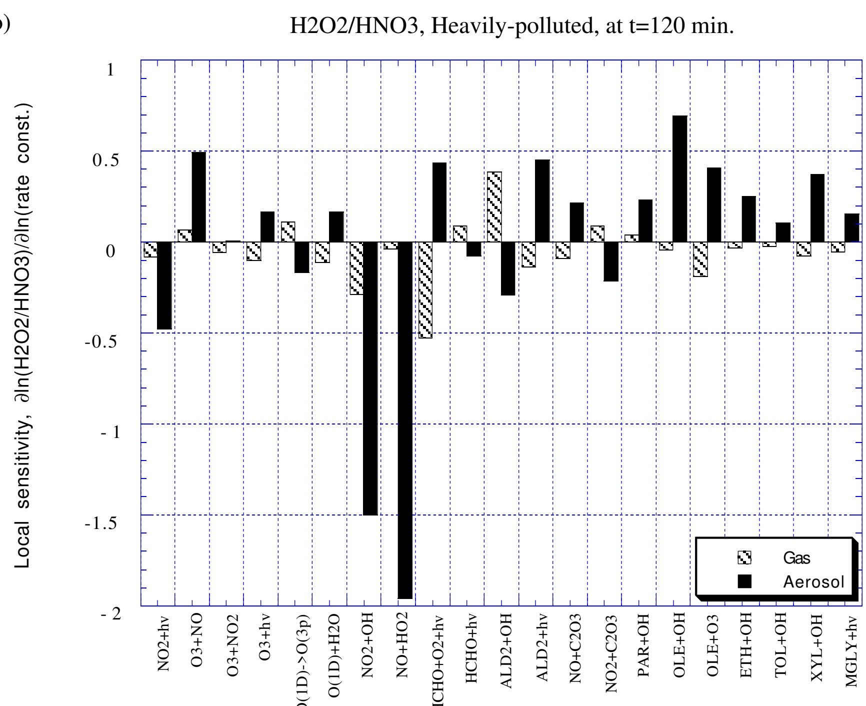


Figure 4. Local sensitivities of (a) O3/NOz and (c) H2O2/HNO3 w.r.t. reaction rate constants at t=120 minutes in the absence (Gas) and presence (Aerosol) of aerosols under heavily-polluted (Heavpoll) conditions. Shown are the most influential reactions and their sensitivities.