



Climate Change, Air Pollution and Global Challenges: Chapter 10. Belowground Carbon Cycling at Aspen FACE: Dynamic Responses to CO₂ and O₃ in Developing Forests (Developments in Environmental Science)

Kurt S. Pregitzer, Alan F. Talhelm

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The Aspen free-air carbon dioxide (CO₂) enrichment (FACE) experiment tested how three developing forest communities responded to elevated concentrations of CO₂ and/or tropospheric ozone (O₃). Throughout the 11-year experiment, elevated CO₂ increased aboveground productivity, whereas the initial negative effects of elevated O₃ on aboveground productivity became insignificant over time. During the first 2 years, fine root biomass and soil respiration responded positively to elevated CO₂ and negatively to elevated O₃. However, after 5 years, O₃ effects on fine root biomass were weakly negative or positive and effects on soil respiration were positive. Despite altering litter inputs, neither elevated O₃ nor elevated CO₂ affected overall soil C storage at the end of the experiment, consistent with observations that elevated CO₂ increased and elevated O₃ tended to decrease the activity of litter-degrading extracellular enzymes. Overall, our understanding of belowground processes is still insufficient to predict how ecosystems will respond to global change.

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