

# Climate Change, Air Pollution and Global Challenges: Chapter 2. Gaseous Exchange Between Forests and the Atmosphere (Developments in Environmental Science)

Stan Cieslik, Juha-Pekka Tuovinen, Manuela Baumgarten, Rainer Matyssek, Patricia Brito, Gerhard Wieser

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Climate change is expected to affect the exchange of gases between forest ecosystems and the atmosphere. In this review, we focus on a few related topics, including the emission of greenhouse gases from the forest floor, and vegetation fires and their impact on air quality and soil CO2 efflux. In particular, we summarise the current state of knowledge on O3 deposition in forest ecosystems, both for stomatal uptake and non-stomatal sinks. Based on such summaries, we discuss interactions between forests, atmospheric composition and climate, and finally outline directions for multi- and interdisciplinary research required for mechanistically understanding such interrelationships.

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