

Seminar “Ocean, Ice and Atmosphere”,  
Institute of Environmental Physics (IUP), Univ. Bremen  
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## Emissions in transition: Tracing air quality-climate links from cities to forests

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Volatile organic compound emissions are not just drivers of many atmospheric reactions leading to air pollutant formation, but also strongly interlinked with climate change: On the one hand, climate change affects ecosystems and thus their biogenic VOC emissions. On the other hand, we as humans alter our behavior in the face of climate change and switch to renewable energy sources, making non-fossil fuel derived VOC emissions relatively more important in cities. In this presentation, the investigation of such changing VOC emissions and their impact on atmospheric chemistry by airborne flux measurements and chamber measurements will be discussed.