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PROF. ASTRID KIENDLER-SCHARR Forschungszentrum Jülich Climate Change and Air Quality – Where are we Heading?

The latest assessment report of the Intergovernmental Panel on Climate Change (IPCC) states that global warming has already reached $\sim 1.1^\circ\text{C}$ above preindustrial temperatures. The talk presents an overview of the key findings from the IPCC report. In particular it will discuss the role of short lived climate forcers in global warming. The short-lived

climate forcers are also prominent air pollutants. The talk summarizes the state-of-the-art knowledge on the interplay between air quality and climate. Examples from our field campaigns, simulation experiments and modelling studies will highlight the knowns and unknowns in atmospheric chemistry – climate interactions.

