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Special Issue of Journal of Urban Climate: Modelling of urban air pollution and climate interactions



Preface

This special issue brings together selected papers from the 9th International Conference in Air Quality - Science and Application, held in Garmisch-Partenkirchen, 24-28 March 2014. The issue of air pollution in cities continues to be a prominent area of scientific research and for formulating policy response. In particular, urban air pollution remains a key challenge when defining measures to reduce health impacts and for achieving sustainable development.

Air Quality 2014 brought together a total of 270 scientists, users and policy makers from many regions across the world to discuss the latest scientific advances in our understanding of air pollution prediction, forecasting and interactions with climate.

This particular special issue contains papers addressing research areas of air quality in urban agglomerations, with a focus on Chinese megacities. Moreover, the capability of coupled meteorological and air quality models on forecasting wildfires is investigated. On a city or even more local scale, modern techniques like source attribution or an analysis of the boundary layer structure by ceilometers are applied. Together, these contributions outline the potential to find strategies to improve air quality in cities.

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